

## Building Energy Data Exchange Specification (BEDES) Compliant Mapping

<b>Date</b>	3/14/2016
<b>Implementation</b>	BuildingSync
<b>Implementation Version</b>	V2.0
<b>BEDES Version</b>	V1.2

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For more information about BEDES, please visit <https://bedes.lbl.gov/bedes-online>

## Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Project Data (Draft 3/14/16)

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "[value]" is used.

The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

BEDES: notes in red text, yellow highlighting

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Site	Occupancy Classification	[value]	n/a	Occupancy Classification	=[value]	n/a			
	Identifier Label	Premises	n/a	Identifier Label	Premises	n/a			
		Listing	n/a		Listing	n/a			
		Name	n/a		Name	n/a			
		Portfolio Manager Property ID	n/a		Portfolio Manager Property	n/a			
		Portfolio Manager Standard	n/a		Other	n/a			
		Federal real property	n/a		Federal real property	n/a			
		Tax book number	n/a		Tax book number	n/a			
		Tax map number	n/a		Tax map number	n/a			
		Assessor parcel number	n/a		Assessor parcel number	n/a			
		Tax parcel letter	n/a		Tax parcel letter	n/a			
		Custom	n/a		Custom	n/a			
		Other	n/a		Other	n/a			
	Identifier Custom Name	[value]	n/a	(No corresponding field)					
	Identifier Value	[value]	n/a	Identifier Value	=[value]	n/a			
	Street Address Detail	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Street Address	[value]	n/a	Address Line 1	=[value]	n/a			
	Street Number Prefix	[value]	n/a	Address Number Prefix	=[value]	n/a			
	Street Number Numeric	[value]	n/a	Address Number	=[value]	n/a			
	Street Number Suffix	[value]	n/a	Address Number Suffix	=[value]	n/a			
	Street Dir Prefix	[value]	n/a	Street Name Pre Directional	=[value]	n/a			
	Street Name	[value]	n/a	Street Name	=[value]	n/a			
	Street Additional Info	[value]	n/a	Address Line 2	=[value]	n/a			
	Street Suffix	[value]	n/a	Street Name Post Type	=[value]	n/a			
	Street Dir Suffix	[value]	n/a	Street Name Post Directional	=[value]	n/a			
	Street Suffix Modifier	[value]	n/a	Street Name Post Modifier	=[value]	n/a			
	Subaddress Type	[value]	n/a	Subaddress Type	=[value]	n/a			
	Subaddress Identifier	[value]	n/a	Subaddress Identifier	=[value]	n/a			
	City	[value]	n/a	City	=[value]	n/a			
	State	[value]	n/a	State	=[value]	n/a			
	Postal Code	[value]	n/a	ZIP Code	=[value]	n/a			
	Postal Code Plus 4	[value]	n/a	ZIP Plus 4	=[value]	n/a			
	County	[value]	n/a	County	=[value]	n/a			
	Country	[value]	n/a	Country Name	=[value]	n/a			
	Climate Zone Type	[value]	n/a	Climate Zone Type	=[value]	n/a			
	Climate Zone: ASHRAE	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: Energy Star	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: California Title 24	[value]	Climate Zone 1	Climate Zone	1	n/a			
			Climate Zone 2		2	n/a			
			Climate Zone 3		3	n/a			
			Climate Zone 4		4	n/a			
			Climate Zone 5		5	n/a			
			Climate Zone 6		6	n/a			
			Climate Zone 7		7	n/a			
			Climate Zone 8		8	n/a			
			Climate Zone 9		9	n/a			
			Climate Zone 10		10	n/a			
			Climate Zone 11		11	n/a			
			Climate Zone 12		12	n/a			
			Climate Zone 13		13	n/a			
			Climate Zone 14		14	n/a			
			Climate Zone 15		15	n/a			
			Climate Zone 16		16	n/a			
	Climate Zone: IECC	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: Building America	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: CBECS	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: DOE	[value]	n/a	Climate Zone	=[value]	n/a			
	Climate Zone: Other	[value]	n/a	Climate Zone	Other	n/a			
	eGRID Region Code	[value]	n/a	eGRID Region Code	=[value]	n/a			
	Weather Data Station ID	[value]	n/a	Weather Data Station ID	=[value]	n/a			
	Weather Station Name	[value]	n/a	Weather Station Name	=[value]	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Weather Station Category	[value]	n/a	Weather Station Category	=[value]	n/a			
	Longitude	[value]	degrees	Longitude	=[value]	degrees			
	Latitude	[value]	degrees	Latitude	=[value]	degrees			
	Field Name	[value]	n/a	(No corresponding field)					This is a user-defined field in BuildingSync, providing flexibility when needed at various points in the schema. It cannot be mapped to BEDES.
	Field Value	[value]	n/a	(No corresponding field)					This is a user-defined field in BuildingSync, providing flexibility when needed at various points in the schema. It cannot be mapped to BEDES.
Customer	Contact Role	Premises		Contact Label	Premises				
		Occupant			Occupant				
		Agency			Agency				
		Owner			Owner				
		Customer			Customer				
		Customer agreement			Customer agreement				
		Administrator			Administrator				
		Qualified Assessor			Qualified assessor				
		Contributor			Contributor				
		Property Management Company			Property management company				
		Operator			Operator				
		Energy Auditor			Energy auditor				
		Energy Modeler			Energy modeler				
		Contractor			Contractor				
		Implementer			Implementer				
		Financier			Financier				
		Commissioning Agent			Commissioning agent				
		MV Agent			MV agent				
		Evaluator			Evaluator				
		Builder			Builder				
		Service			Service				
		Billing			Billing				
		Architect			Architect				
		Mechanical Engineer			Mechanical engineer				
		Energy Consultant			Energy consultant				
		Service and Product Provider			Service and product provider				
		Authority Having Jurisdiction			Authority having jurisdiction				
		Utility			Utility				
		Power plant			Power plant				
		Electric Distribution Utility (EDU)			Electric distribution utility				
		ESCO			Service and product provider				
		Facilitator			Agency				
		Finance Specialist			Administrator				
		Other			Other				
	Contact Name	[value]	n/a	Full Name	=[value]	n/a			
	Contact Company	[value]	n/a	Company Name	=[value]	n/a			
	Contact Telephone Number	[value]	n/a	Telephone Number	=[value]	n/a			
	Contact Telephone Number Label	Days		Telephone Number Label	Day				
		Evenings			Evening				
		Cell			Mobile				
		Other			Other				
	Contact Email Address	[value]	n/a	Email Address	=[value]	n/a			
	Contact Email Address Label	[value]	n/a	Email Address Label	=[value]	n/a			
	Federal Building	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Agency	[value]	n/a	Contact Label	Agency				
				Company Name	=[value]	n/a			
	Department Region	[value]	n/a	Federal Department or Region	=[value]	n/a			
	Portfolio Manager	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES.
	PM Benchmark Date	[value]	n/a	Assessment Tool	Portfolio Manager	n/a			
		CCYY-MM-DD		Benchmark Date	=[value]	CCYY-MM-DD			
	Building Profile Status	[value]	n/a	Assessment Tool	Portfolio Manager	n/a			
				Account Status	=[value]	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Federal Sustainability Checklist Completion Percentage	[value]	%	Federal Sustainability Checklist Completion Percentage	=[value]	%			
Facility	Height Distribution	[value]	n/a	Height Distribution	=[value]	n/a			"Variable Height" in BEDES is not used. It's not clear how this is different from "Multiple Heights"
	Facility Classification	[value]	n/a	Occupancy Classification	=[value]	n/a			
	Aspect Ratio	[value]	n/a	Aspect Ratio	=[value]	n/a			
	Perimeter	[value]	ft	Perimeter	=[value]	n/a	=[value]		
				Unit of Measure	ft	n/a			
	Ownership	[value]	n/a	Ownership	=[value]	n/a			"For-profit organization" and "Non-profit organization" were added to BEDES 1.1, but probably should not be used in BuildingSync because they overlap with other values.
	Occupant Type	[value]	n/a	Occupant Type	=[value]	n/a			
	Occupant Quantity Type	Peak total occupants	n/a	Occupant Quantity Type	Peak total occupants	n/a			
		Adults	n/a		Adults	n/a			
		Children	n/a		Children	n/a			
		Average residents	n/a		Average residents	n/a			
		Workers on main shift	n/a		Workers on main shift	n/a			
		Full-time equivalent workers	n/a		Full time equivalent workers	n/a			
		Average daily salaried labor hours	n/a		Average daily salaried labor hours	n/a			
		Registered students	n/a		Registered students	n/a			
		Staffed beds	n/a		Staffed beds	n/a			
		Licensed beds	n/a		Licensed beds	n/a			
		Capacity	n/a		Capacity	n/a			
		Capacity percentage	n/a		Capacity percentage	n/a			
	Occupant Quantity	[value]	n/a	Quantity	=[value]	n/a		Decimal in BuildingSync must be rounded off to an integer in BEDES.	
	Percent Occupied by Owner	[value]	%	Percent Occupied by Owner	=[value]	%			
	Assessment Program	[value]	n/a	Assessment Program	=[value]	n/a			
	Assessment Level	Bronze	n/a	Assessment Level	Bronze	n/a			
		Silver	n/a		Silver	n/a			
		Gold	n/a		Gold	n/a			
		Emerald	n/a		Emerald	n/a			
		Certified	n/a		Certified	n/a			
		Bronze	n/a		Bronze	n/a			
		Silver	n/a		Silver	n/a			
		Gold	n/a		Gold	n/a			
		Platinum	n/a		Platinum	n/a			
		One Star	n/a		One Star	n/a			
		Two Star	n/a		Two Star	n/a			
		Three Star	n/a		Three Star	n/a			
		Four Star	n/a		Four Star	n/a			
		Other	n/a		Other	n/a			
	Assessment Value	[value]	n/a	Assessment Value	=[value]	n/a			
	Assessment Year	[value]	CCYY	Assessment Year	=[value]	CCYY			
	Assessment Version	[value]	n/a	Assessment Version	=[value]	n/a			
	Year of Last Major Remodel	[value]	CCYY	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
				Action Category	Major Remodel	n/a			
	Year of Last Energy Audit	[value]	CCYY	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
				Action Category	Audit	n/a			
	Retrocommissioning Date	[value]	CCYY-MM-DD	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
				Action Category	Retrocommissioning	n/a			
	Year Of Latest Retrofit	[value]	CCYY-MM-DD	Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
				Action Category	Retrofit	n/a			
	Year Occupied	[value]	CCYY	Construction Status	Occupancy	n/a			
				Construction Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
	Number of Businesses	[value]	n/a	Spatial Unit Type	Businesses	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Operator Type	[value]	n/a	Quantity Operational Control Actor	=[value]	n/a			This identifies whether the owner or another actor controls the operation of the facility. BEDES does not have this field, but it seems useful to keep in BuildingSync.
	Horizontal Surroundings	No abutments	n/a	Horizontal Surroundings	Stand-alone				
		Attached from Above	n/a		Attached from above	n/a			
		Attached from Below	n/a		Attached from below	n/a			
		Attached from Above and Below	n/a		Attached from above and below	n/a			
	Vertical Surroundings	Unknown	n/a	Vertical Surroundings	Unknown	n/a			
		Stand-alone	n/a		Stand-alone	n/a			
		Attached on one side	n/a		Attached on one side	n/a			
		Attached on two sides	n/a		Attached on two sides	n/a			
		Attached on three sides	n/a		Attached on three sides	n/a			
		Within a building	n/a		Within a premises	n/a			
		Unknown	n/a		Unknown	n/a			
	Ownership Status	[value]	n/a	Ownership Status	=[value]	n/a			
	NAICS Code	[value]	n/a	NAICS Code	=[value]	n/a			
	Publicly Subsidized	True	n/a	Occupant Type	Government subsidized community	n/a			
Subsection	Year of Construction	[value]	CCYY	Construction Status	Completed	n/a			
				Construction Status Date	=[value]	CCYY			
				Date Format	Year	n/a			
	SideA1Orientation	[value]	degrees	Azimuth	=[value]	degrees			There doesn't appear to be a "qualifier" in BEDES for Azimuth to provide further context. BEDES: What does "SideA1" mean?
	Footprint Shape	Rectangular	n/a	Footprint Shape	Rectangular	n/a			Several shapes in BEDES 1.1 are not used in BuildingSync. I don't believe they are necessary. The shape definitions were worked out with PNNL/Asset Score and Amir at DOE to allow clear geometry definitions for modeling. This was deemed out of scope at the time for BEDES.
		L-Shape	n/a		L-shaped	n/a			
		U-Shape	n/a		U-shaped	n/a			
		H-Shape	n/a		H-Shaped	n/a			
		T-Shape	n/a		T-Shape	n/a			
		O-Shape	n/a		Courtyard	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Side Number	[value]	n/a	(No corresponding field)					Geometry term outside the scope of BEDES.
	Side Length	[value]	ft	Length	=[value]	n/a			BEDES has no relevant qualifier representing the length of a side of a block.
				Unit of Measure	ft	n/a			
	Wall ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Wall Area	[value]	ft2	Opaque Surface	Wall	n/a			
				Area	=[value]	ft2			
	Window ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Window to Wall Ratio	[value]	%	Window to Wall Ratio	=[value]	%			
	Fenestration Area	[value]	ft2	Opaque Surface Component	Fenestration	n/a			
				Area	=[value]	ft2			
	Percent of Window Area Shaded	[value]	%	Fenestration	Window	n/a			
				Percent of Fenestration Area Shaded	=[value]	%			
	Door ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Space ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Roof ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Roof Area	[value]	ft2	Opaque Surface	Roof	n/a			
				Area	=[value]	ft2			
	Roof Insulated Area	[value]	ft2	Opaque Surface	Roof	n/a			
				Material Qualifier	Insulation	n/a			
				Area	=[value]	ft2			
	Ceiling ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Ceiling Area	[value]	ft2	Opaque Surface	Ceiling	n/a			
				Area	=[value]	ft2			
	Ceiling Insulated Area	[value]	ft2	Opaque Surface	Ceiling	n/a			
				Material Qualifier	Insulation	n/a			
				Area	=[value]	ft2			
	Foundation ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Foundation Area	[value]	ft2	Opaque Surface	Floor	n/a			
				Area	=[value]	ft2			
	Skylight ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Percent Skylight Area	[value]	%	Percent Skylight Area	=[value]	%			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	XOffset	[value]	ft	Offset	=[value]	ft			There doesn't appear to be a "qualifier" in BEDES for Offset to provide further context. BEDES v2.0 adding "Coordinate" qualifier.
	YOffset	[value]	ft	Offset	=[value]	ft			
	ZOffset	[value]	ft	Offset	=[value]	ft			
	Thermal Zone Layout	[value]	n/a	Thermal Zone Layout	=[value]	n/a			
	Perimeter Zone Depth	[value]	ft	Depth	=[value]	ft			
				Thermal Zone Layout	Perimeter	n/a			
				Unit of Measure	ft	n/a			
	Subsection ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	HVAC Schedule ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Floor Area Type	Gross	n/a	Floor Area Qualifier	Gross	n/a			
		Net	n/a	Floor Area Qualifier	Net	n/a			
		Finished	n/a	Finished Status	Finished	n/a			
		Footprint	n/a	Floor Area Qualifier	Footprint	n/a			
		Rentable	n/a	Floor Area Qualifier	Rentable	n/a			
		Occupied	n/a	Occupied Status	Occupied	n/a			
		Lighted	n/a	Lighting Status	Artificial lighting	n/a			
		Daylit	n/a	Lighting Status	Substantial daylighting	n/a			
		Heated	n/a	Conditioning Status	Heated	n/a			
		Cooled	n/a	Conditioning Status	Cooled	n/a			
		Conditioned	n/a	Conditioning Status	Conditioned	n/a			
		Unconditioned	n/a	Conditioning Status	Unconditioned	n/a			
		Semi-conditioned	n/a	Conditioning Status	Semi-conditioned	n/a			
		Heated and Cooled	n/a	Conditioning Status	Conditioned	n/a			
		Heated only	n/a	Conditioning Status	Conditioned	n/a			
		Cooled only	n/a	Conditioning Status	Conditioned	n/a			
		Ventilated	n/a	Conditioning Status	Ventilated	n/a			
		Enclosed	n/a	Premises Enclosure	Enclosed	n/a			
		Non-Enclosed	n/a	Premises Enclosure	Non-Enclosed	n/a			
		Open	n/a	Premises Enclosure	Open	n/a			
		Lot	n/a	Spatial Unit Type	Lot	n/a			
		Custom	n/a	Floor Area Qualifier	Custom	n/a			
	Floor Area Custom Name	[value]	n/a	(No corresponding field)					This field is described in the BEDES "Guidelines" tab when "Custom" is selected, but is not specifically listed as a BEDES term.
	Floor Area Value	[value]	ft2	Area	=[value]	ft2			
	Story	[value]	n/a	(No corresponding field)					
	Percentage of Common Space	[value]	%	Occupancy Classification	Common area	n/a			
				Percentage of Total Area	=[value]	%			
	Conditioned Volume	[value]	ft3	Conditioning Status	Conditioned	n/a			
				Volume	=[value]	ft3			
	Floors Above Grade	[value]	n/a	Location	Above grade	n/a			
				Spatial Unit Type	Floors	n/a			
	Floors Below Grade	[value]	n/a	Quantity	=[value]	n/a			
				Location	Below grade	n/a			
	Floors Partially Below Grade	[value]	n/a	Spatial Unit Type	Floors	n/a			
				Quantity	=[value]	n/a			
				Location	Partially Below Grade	n/a			
	Floor to Floor Height	[value]	ft	Spatial Unit Type	Floors	n/a			
				Quantity	=[value]	n/a			
				Height	=[value]	ft			
	Floor to Ceiling Height	[value]	ft	Unit of Measure	ft	n/a			
				Floor Height Measurement	Floor-to-Ceiling Height	n/a			
				Height	=[value]	ft			
	Primary Contact ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Premises Notes	[value]	n/a	Notes	=[value]	n/a			
	Premises Name	[value]	n/a	Identifier Label	Name	n/a			
				Identifier	=[value]	n/a			
	Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Occupancy Schedule ID	[value]	n/a	(No corresponding field)					Hierarchical term outside scope of BEDES
	Occupants Activity Level	[value]	n/a	Occupant Activity Level	=[value]	n/a			
	Schedule Category	[value]	n/a	Schedule Category	=[value]	n/a			
	Day Type	[value]	n/a	Schedule Day	=[value]	n/a			
	Partial Operation Percentage	[value]	%	Partial Operation Percentage	=[value]	%			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Schedule Period Begin Date	[value1]-[value2]-[value3]	CCYY-MM-DD	Schedule Period Begin Month	=[value2]	n/a	Two digit field representing Month must be converted to an integer		
				Schedule Period Begin Day	=[value3]	n/a	Two digit field representing Day must be converted to an integer		
	Schedule Period End Date	[value1]-[value2]-[value3]	CCYY-MM-DD	Schedule Period End Month	=[value2]	n/a	Two digit field representing Month must be converted to an integer		
				Schedule Period End Day	=[value3]	n/a	Two digit field representing Day must be converted to an integer		
	Day Start Time	[value]	hh:mm:ss.sss	Day Start Time	=[value]	hhmm	Time format must be converted to a 4-digit military time for BEDES.		
	Day End Time	[value]	hh:mm:ss.sss	Day End Time	=[value]	hhmm	Time format must be converted to a 4-digit military time for BEDES.		
	Spatial Unit Type	[value]	n/a	Spatial Unit Type	=[value]	n/a			
	Number of Units	[value]	n/a	Quantity	=[value]	n/a			
	Unit Density	[value]	n/a	(No corresponding field)					BEDES does not have unit densities, so this field cannot be mapped. The unit count and relevant floor area are mapped elsewhere, so no information is lost.

## Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Systems Data

Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "[=value]" is used.

The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Air Distribution	Duct Configuration	[value]	n/a	Duct Configuration	[=value]	n/a			
	Heating Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Cooling Delivery ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Static Pressure Reset Control	True	n/a	Control Strategy	Static pressure reset	n/a			
		False	n/a	(No corresponding field)					A false value for this term in BuildingSync maps to the absence of a value in BEDES.
	Supply Air Temperature Reset Control	True	n/a	Control Strategy	Supply air temperature reset				
		False	n/a	(No corresponding field)					A false value for this term in BuildingSync maps to the absence of a value in BEDES.
	Minimum Outside Air Percentage	[value]	%	Setpoint Type	Outside air percentage	n/a			
				Setpoint Low	[=value]	%			
	Maximum OA Flow Rate	[value]	ft3/min	Setpoint Type	Outside air flow rate	n/a			
				Setpoint High	[=value]	ft3/min			
	Duct Insulation Condition	[value]	n/a	Duct Insulation Condition	[=value]	n/a			
	Duct Sealing	[value]	n/a	Duct Sealing	[=value]	n/a			
	Duct Insulation R-Value	[value]	ft2-F-hr/Btu	Duct Insulation R-Value	[=value]	ft2-F-hr/Btu			
	Duct Surface Area	[value]	ft2	Duct Surface Area	[=value]	ft2			
	Supply Duct Percent	[value]	%	Supply Duct Percent	[=value]	%			
	Conditioned Space	[value]	%	Conditioned Space	[=value]	%			
	Return Duct Percent	[value]	%	Return Duct Percent	[=value]	%			
	Conditioned Space	[value]	%	Conditioned Space	[=value]	%			
	Static Pressure Installed	[value]	Pa	Static Pressure	[=value]	Pa			
	Duct Type	Flex uncategorized	n/a	Duct Type	Flex	n/a			
		Grey flex	n/a		Grey flex	n/a			
		Nylon flex	n/a		Nylon flex	n/a			
		Duct board	n/a		Duct board	n/a			
		Sheet metal	n/a		Sheet metal	n/a			
		Galvanized	n/a		Galvanized	n/a			
		Flexible	n/a		Flexible	n/a			
		Fiberboard	n/a		Fiberboard	n/a			
		No ducting	n/a		No ducting	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Duct Leakage Test Method	[value]	n/a	Duct Leakage Test Method	[=value]	n/a			
	Duct Pressure Test Leakage Rate	[value]	cfm	Duct Pressure Test Leakage Rate	[=value]	cfm			
	Supply Fraction of Duct Leakage	[value]	%	Supply Fraction of Duct Leakage	[=value]	%			
	Duct Pressure Test Leakage Percentage	[value]	%	Duct Pressure Test Leakage Percentage	[=value]	%			
	Air Side Economizer	[present]	n/a	Air-Side Economizer	is present	n/a			
		[not present]	n/a		is not present	n/a			
	Air Side Economizer Type	[value]	n/a	Air-Side Economizer Type	[=value]	n/a			
	Economizer Control	[value]	n/a	Control Strategy	[=value]	n/a			
	Economizer Dry Bulb Control Point	[value]	"F	Setpoint Type	Dry bulb control point	n/a			
				Setpoint Low	[=value]	"F			
	Economizer Enthalpy Control Point	[value]	Btu/lb	Setpoint Type	Enthalpy control point	n/a			
				Setpoint Low	[=value]	Btu/lb			
	Economizer Low Temperature Lockout	[value]	"F	Setpoint Type	Temperature lockout	n/a			
				Setpoint Low	[=value]	"F			
Heating System	Heating Plant Type	Boiler	n/a	Heating Type	Boiler				BEDES does not have a general entry for boiler or district heating. These plants are identified through other fields in BuildingSync. BEDES: Boiler is in BEDES v1.2. Changing centrally located plant to "District" in v2.0. Can use "Heating Medium" to further qualify if desired.
		DistrictHeating	n/a	Heating Type	District				
		SolarThermal	n/a	Heating Type	Solar thermal	n/a			
		NoHeating	n/a	Heating Type	No heating	n/a			
		OtherCombination	n/a	Heating Type	Other	n/a			
	Heating Source Type	SourceHeatingPlantID	n/a	(No corresponding field)					Central heating plants are not differentiated from zonal systems in BEDES, therefore the Heating Plant value is not relevant in the mapping. Furnaces and heat pumps are not a general category in BEDES, and are therefore identified through the Furnace Type and Heat Pump Type fields in BuildingSync.
		Furnace	n/a	(No corresponding field)					
		HeatPump	n/a	(No corresponding field)					
		OtherCombination	n/a	Heating Type	Other	n/a			
		NoHeating	n/a	Heating Type	No heating	n/a			
	Furnace Type	Warm air	n/a	Heating Type	Furnace warm air	n/a			
		Fireplace	n/a		Fireplace	n/a			
		Heating stove	n/a		Heating stove	n/a			
		Built-in heater	n/a		Built-in heater	n/a			
		Individual space heater	n/a		Individual space heater	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Heat Pump Type	Split		Heating Type	Split heat pump	n/a			
		Packaged Terminal			Packaged terminal heat pump	n/a			
		Packaged Unitary			Packaged unitary heat pump	n/a			
		Other			Other	n/a			
		Unknown			Unknown	n/a			
	Boiler Type	[value]	n/a	(No corresponding field)					
	Burner Type	[value]	n/a	Burner Type	[=value]	n/a			
	Ignition Type	[value]	n/a	Ignition Type	[=value]	n/a			
	Heating Staging	[value]	n/a	Heating Staging	[=value]	n/a			
	Number of Heating Stages	[value]	n/a	Number of Heating Stages	[=value]	n/a			
	Heating Stage Capacity Fraction	[value]	%	Heating Stage Capacity Fraction	[=value]	%			
	Priority	Primary	n/a	Priority	Primary	n/a			
		Secondary	n/a		Secondary	n/a			
		Tertiary	n/a		Tertiary	n/a			
		Back-up	n/a		Backup	n/a			
		Other	n/a		Other	n/a			
	Annual Heating Efficiency Value	[value]	n/a	Efficiency Qualifier	Annual heating	n/a			Units are those assigned for the corresponding Efficiency Metric Qualifier.
	Annual Heating Efficiency Unit	[value]	n/a	Efficiency Metric Qualifier	[=value]	n/a			



BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Combustion Efficiency	[value]	%	Efficiency Qualifier	Combustion	n/a			
	Thermal Efficiency	[value]	%	Efficiency Value	Thermal	%			
	Heating Medium	[value]	n/a	Efficiency Qualifier	Thermal	%			
	Pipe Insulation Thickness	[value]	in.	Heating Medium	Heating Medium	n/a			
	Pipe Location	[value]	%	Pipe Insulation Thickness	Pipe Insulation Thickness	inches			
	Input Capacity	[value]	MMBtu	Pipe Location	Pipe Location	%			
	Output Capacity	[value]	MMBtu	Input Capacity	Input Capacity	MMBtu			
	Draft Type	[value]	n/a	Output Capacity	Output Capacity	MMBtu			
	Boiler Insulation R Value	[value]	hr-ft2-F/Btu	Draft Type	Draft Type	n/a			
	Boiler Insulation Thickness	[value]	in.	Boiler Insulation R-Value	Boiler Insulation R-Value	hr-ft2-F/Btu			
	Burner Turndown Ratio	[value]	n/a	Boiler Insulation Thickness	Boiler Insulation Thickness	inches			
	Boiler Percent Condensate Return	[value]	%	Burner Turndown Ratio	Burner Turndown Ratio	n/a			
	Hot Water Boiler Minimum Flow Rate	[value]	gpm	Boiler Percent Condensate Return	Boiler Percent Condensate Return	%			BEDES does not have a specific flow rate type for hot water boilers.
	Hot Water Boiler Maximum Flow Rate	[value]	gpm	Setpoint Type	Flow Rate	n/a			
	Boiler EWT	[value]	°F	Setpoint Low	Setpoint Low	ft3/min	=(value)*0.133681		
	Boiler LWT	[value]	°F	Setpoint Type	Flow Rate	n/a			
				Setpoint High	Setpoint High	ft3/min	=(value)*0.133681		
	Condensing Operation	True	n/a	Setpoint Type	Return water temperature	n/a			
				Setpoint Low	Setpoint Low	°F			
	Steam Boiler Minimum Operating Pressure	[value]	psi	Setpoint High	Setpoint High	°F			
				Setpoint Type	Supply water temperature	n/a			
	Steam Boiler Maximum Operating Pressure	[value]	psi	Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Hot Water Reset Control	[value]	n/a	Setpoint Type	Setpoint Type	n/a			
	District Heating Type	Hot water	n/a	Setpoint Low	Setpoint Low	°F			
		Direct steam	n/a	Setpoint High	Setpoint High	°F			
		Steam to hot water heat exchanger	n/a	Setpoint Type	Setpoint Type	n/a			
		Other	n/a	Setpoint Low	Setpoint Low	°F			
	Refrigerant	[value]	n/a	Setpoint High	Setpoint High	°F			
	Refrigerant Charge Factor	[value]	%	Setpoint Type	Setpoint Type	n/a			
	Heat Pump Backup Heating Switchover Temperature	[value]	°F	Condensing Operation	Condensing	n/a			
	Heat Pump Backup System Fuel	[value]	n/a	Not condensing	Not condensing	n/a			
	Heat Pump Backup AFUE	[value]	n/a	Pressure	Pressure	n/a			
	Frequency of Maintenance	[value]	n/a	Setpoint Low	Setpoint Low	Pa	=(value)*6895		
	Heat Lowered	[value]	n/a	Setpoint Type	Setpoint Type	n/a			
	AC Adjusted	[value]	n/a	Setpoint High	Setpoint High	Pa	=(value)*6895		
				Setpoint Type	Setpoint Type	n/a			
	Setpoint Temperature Heating	[value]	°F	Reset Routine	Reset Routine	n/a			
				Reset Routine	Reset Routine	n/a			
				Reset Routine	Reset Routine	n/a			
				Reset Routine	Reset Routine	n/a			
	Setback Temperature Heating	[value]	°F	Room temperature	Room temperature	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Primary HVAC Control Strategy	Pneumatic	n/a	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Heating Plant ID	[value]	n/a	Control Strategy	Control Strategy	n/a			
	Heating Supply Air Temperature	[value]	°F	Pneumatic	Pneumatic	n/a			
				Electronic	Electronic	n/a			
				Other	Other	n/a			
				Unknown	Unknown	n/a			
	Heating Supply Air Temperature Control	[value]	n/a	(No corresponding field)	(No corresponding field)	n/a			Hierarchical element not used in BEDES
				Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
	Reheat Control Method	Dual Maximum	n/a	Setpoint High	Setpoint High	°F			
				Setpoint Type	Setpoint Type	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Reheat Source	[value]	n/a	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Outside Air Reset Maximum Heating Supply Temperature	[value]	°F	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Outside Air Reset Minimum Heating Supply Temperature	[value]	°F	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Outside Air Temperature Upper Limit Heating Reset Control	[value]	°F	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			
	Outside Air Temperature Lower Limit Heating Reset Control	[value]	°F	Setpoint Type	Setpoint Type	n/a			
				Setpoint Setting Condition	Setpoint Setting Condition	n/a			
				Setpoint Low	Setpoint Low	°F			
				Setpoint High	Setpoint High	°F			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Cooling System	Cooling Plant Type	Chiller	n/a	Setpoint Low	=(value)	°F			BEDES does not have a general entry for chillers. These plants are identified through other fields in BuildingSync.
		DistrictChilledWater	n/a	Cooling Type	(No corresponding field)				
		NoCooling	n/a		District chilled water	n/a			
		OtherCombination	n/a		No cooling	n/a			
		Unknown	n/a		Other	n/a			
	Chiller Type	Vapor compression	n/a	Cooling Type	Unknown	n/a			
		Absorption	n/a		Vapor compression chiller	n/a			
		Other	n/a		Absorption chiller	n/a			
		Unknown	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Cooling Source Type	CoolingPlantID	n/a	Cooling Type	(No corresponding field)				Central cooling plants are not differentiated from zonal systems in BEDES, therefore the Cooling Plant value is not relevant in the mapping. DX is not a general category in BEDES, and is therefore identified through the DX System Type field in BuildingSync.
		DX	n/a		(No corresponding field)				
		EvaporativeCooler	n/a		Evaporative cooler	n/a			
		OtherCombination	n/a		Other	n/a			
		NoCooling	n/a		No cooling	n/a			
	DX System Type	Unknown	n/a		Unknown	n/a			
		Split DX air conditioner	n/a	Cooling Type	Split DX air conditioner	n/a			
		Packaged terminal air conditioner (PTAC)	n/a		Packaged terminal air conditioner	n/a			
		Split heat pump	n/a		Split heat pump	n/a			
		Packaged terminal heat pump (PTHP)	n/a		Packaged terminal heat pump	n/a			
		Variable refrigerant flow	n/a		Variable refrigerant flow	n/a			
		Packaged/unitary direct expansion/RTU	n/a		Packaged unitary direct expansion RTU	n/a			
		Packaged/unitary heat pump	n/a		Packaged unitary heat pump	n/a			
		Single package vertical air conditioner	n/a		Single package vertical air conditioner	n/a			
		Single package vertical heat pump	n/a		Single package vertical heat pump	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Cooling Medium	=(value)	n/a	Cooling Medium	=(value)	n/a			
	Zoning System Type	=(value)	n/a	Zoning System Type	=(value)	n/a			
	Cooling Plant ID	=(value)	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	HVAC pipe configuration	=(value)	n/a	Pipe Configuration	=(value)	n/a			
	Chiller Compressor Driver	=(value)	n/a	Chiller Compressor Driver	=(value)	n/a			
	Chiller Compressor Type	=(value)	n/a	Chiller Compressor Type	=(value)	n/a			
	Compressor Staging	=(value)	n/a	Compressor Staging	=(value)	n/a			
	Condenser Plant	AirCooled	n/a	Condenser Type	Air cooled	n/a			BEDES does not have general Water Cooled or Ground Source categories, but it can be inferred based on more detailed elements.
		WaterCooled	n/a		(No corresponding field)				
		GroundSource	n/a		(No corresponding field)				
		GlycolCooledDryCooler	n/a		Glycol cooled, dry cooler	n/a			
	Water Cooled Condenser Type	Other	n/a	Condenser Type	Other	n/a			
		Unknown	n/a		Unknown	n/a			
		cooling tower	n/a		Water cooled, cooling tower	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Ground Source Type	Open loop ground water	n/a	Condenser Type	Water cooled, open loop ground water	n/a			
		Closed loop ground source	n/a		Water cooled, closed loop ground source	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
		Unknown	n/a		Unknown	n/a			
	Absorption Heat Source	=(value)	n/a	Absorption Heat Source	=(value)	n/a			
	Absorption Stages	=(value)	n/a	Absorption Stages	=(value)	n/a			
	Number of Discrete Cooling Stages	=(value)	n/a	Number of Discrete Cooling Stages	=(value)	n/a			
	Cooling Stage Capacity	=(value)	%	Cooling Stage Capacity	=(value)	%			
	Condenser Fan Speed Operation	=(value)	n/a	Condenser Fan Speed Operation	=(value)	n/a			
	Annual Cooling Efficiency Value	=(value)	n/a	Efficiency Qualifier	Annual cooling	n/a			Units are those assigned for the corresponding Efficiency Metric Qualifier.
	Annual Cooling Efficiency Units	=(value)	n/a	Efficiency Value	=(value)	n/a			
				Efficiency Metric Qualifier	=(value)	n/a			
	Minimum Part Load Ratio	=(value)	n/a	Minimum Part Load Ratio	=(value)	n/a			Not expressed as a percentage in BEDES, but the value is the same.
	Part Load Ratio Below Which Hot Gas Bypass Operates	=(value)	%	Part Load Ratio Below Which Hot Gas Bypass Operates	=(value)	n/a			
	Evaporative Cooling Type	=(value)	n/a	Evaporative Cooling Type	=(value)	n/a			
	Chilled Water Reset Control	=(value)	n/a	Setpoint Type	Supply water temperature	n/a			
				Setpoint Setting Condition	Reset	n/a			
				Reset Routine	=(value)	n/a			
	Cooling Tower Control Type	=(value)	n/a	Control Strategy	=(value)	n/a			
				Condenser Type	Water cooled cooling tower	n/a			
	Water Cooled Condenser Flow Control	Fixed Flow	n/a	Control Strategy	Fixed	n/a			
		Two Position Flow	n/a		Two position flow	n/a			
		Variable Flow	n/a		Variable flow	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Cell Count	=(value)	n/a	Setpoint Type	Flow Rate	n/a			
	Water Side Economizer	[present]	n/a	Cell Count	=(value)	n/a			
		[not present]	n/a	Water-Side Economizer	Is present	n/a			
					Is not present	n/a			
	Water Side Economizer Type	=(value)	n/a	Water-Side Economizer Type	=(value)	n/a			
	Water Side Economizer Temperature Maximum	=(value)	°F	Setpoint Type	Supply water temperature	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint High	=(value)	°F			
	Water Side Economizer DB Temperature Maximum	=(value)	°F	Setpoint Type	Dry bulb control point	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint High	=(value)	°F			
	Active Dehumidification	True	n/a	Active Dehumidification	Is available	n/a			
		False	n/a		Is not available	n/a			
	Evaporatively Cooled Condenser	[present]	n/a	Evaporatively Cooled	Is available	n/a			
		[not present]	n/a	Condenser	Is not available	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Evaporatively Cooled Condenser Maximum Temperature	[value]	*F	Setpoint Type	Dry bulb control point	n/a			
				Setpoint High	=[value]	*F			
	Evaporatively Cooled Condenser Minimum Temperature	[value]	*F	Setpoint Type	Dry bulb control point	n/a			
				Setpoint Low	=[value]	*F			
	Chilled Water Supply Temperature	[value]	*F	Setpoint Type	Supply water temperature	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	*F			
				Setpoint High	=[value]	*F			
	Condenser Water Temperature	[value]	*F	Setpoint Type	Supply water temperature	n/a			There doesn't appear to be a way to differentiate condenser and chilled water supply temperatures in BEDES.
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	*F			
				Setpoint High	=[value]	*F			
	Fan Coil Type	[value]	n/a	Cooling Delivery Type	=[value]	n/a			
	Air Delivery Type	Central fan	n/a	Cooling Delivery Type	Central air handler single duct	n/a			BEDES has separate options for Heating Delivery Type and Cooling Delivery Type. BuildingSync does not make the distinction, because Delivery Type can be referenced by either a heating system or cooling system, or both.
	Duct Configuration	Single	n/a						
	CoolingSourceID	(Not null)	n/a						
	Air Delivery Type	Central fan	n/a	Cooling Delivery Type	Central air handler dual duct	n/a			
	Duct Configuration	Dual	n/a						BEDES has separate options for Heating Delivery Type and Cooling Delivery Type. BuildingSync does not make the distinction, because Delivery Type can be referenced by either a heating system or cooling system, or both.
	CoolingSourceID	(Not null)	n/a						
	Air Delivery Type	Induction units	n/a	Cooling Delivery Type	Chilled beam	n/a			
		Low pressure under floor	n/a		Under floor	n/a			
		Local fan	n/a		Local fan	n/a			
		Other	n/a		Other	n/a			
	CoolingSourceID	(Not null)	n/a		Unknown	n/a			
	Air Delivery Type	Central fan	n/a	Heating Delivery Type	Air handler	n/a			BEDES has separate options for Heating Delivery Type and Cooling Delivery Type. BuildingSync does not make the distinction, because Delivery Type can be referenced by either a heating system or cooling system, or both.
		Induction units	n/a		Induction units	n/a			
		Low pressure under floor	n/a		Low pressure under floor	n/a			
		Local fan	n/a		Local fan	n/a			
		Other	n/a		Other	n/a			
	HeatingSourceID	(Not null)	n/a		Unknown	n/a			
	Terminal Unit	CAV terminal box with reheat	n/a	Cooling Delivery Type	Terminal reheat	n/a			The BEDES Terminal Reheat option does not expressly indicate constant volume, but it seems to be implied because VAV is listed separately.
		VAV terminal box fan powered no reheat	n/a		VAV terminal box fan powered	n/a			
		VAV terminal box fan powered with reheat	n/a		VAV terminal box fan powered	n/a			
		VAV terminal box not fan powered no reheat	n/a		VAV terminal box not fan powered	n/a			
		VAV terminal box not fan powered with reheat	n/a		VAV terminal box not fan powered	n/a			
		Automatically controlled register	n/a		Other	n/a			
		Manually controlled register	n/a		Other	n/a			
		Uncontrolled register	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	CoolingSourceID	(Not null)	n/a						
	Terminal Unit	CAV terminal box with reheat	n/a	Heating Delivery Type	CAV terminal box with reheat	n/a			
		VAV terminal box fan powered no reheat	n/a		VAV terminal box fan powered no reheat	n/a			
		VAV terminal box fan powered with reheat	n/a		VAV terminal box fan powered with reheat	n/a			
		VAV terminal box not fan powered no reheat	n/a		VAV terminal box not fan powered no reheat	n/a			
		VAV terminal box not fan powered with reheat	n/a		VAV terminal box not fan powered with reheat	n/a			
		Automatically controlled register	n/a		Other	n/a			
		Manually controlled register	n/a		Other	n/a			
		Uncontrolled register	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	HeatingSourceID	(Not null)	n/a						
	Convection Type	Perimeter baseboard	n/a	Cooling Delivery Type	Other	n/a			
		Chilled beam	n/a		Chilled beam	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	CoolingSourceID	(Not null)	n/a						
	Convection Type	Perimeter baseboard	n/a	Heating Delivery Type	Perimeter baseboard	n/a			
		Chilled beam	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	HeatingSourceID	(Not null)	n/a						
	Radiant Type	Radiator	n/a	Cooling Delivery Type	Other	n/a			
		Radiant floor or ceiling	n/a		Radiant ceiling	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	CoolingSourceID	(Not null)	n/a						
	Radiant Type	[value]	n/a	Heating Delivery Type	=[value]	n/a			
	HeatingSourceID	(Not null)	n/a						
	Setpoint Temperature Cooling	[value]	*F	Setpoint Type	Room temperature	n/a			
				Setpoint Setting Condition	Normal	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	=[value]	*F			
				Setpoint High	=[value]	*F			
	Setup Temperature Cooling	[value]	*F	Setpoint Type	Room temperature	n/a			
				Setpoint Setting Condition	Reset	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Cooling Supply Air Temperature	[value]	°F	HVAC Systems Controlled	Cooling	n/a			
				Setpoint Low	-(value)	°F			
				Setpoint High	-(value)	°F			
	Cooling Supply Air Temperature Control Type	[value]	n/a	Setpoint Type	Supply air temperature	n/a			
				Setpoint Setting Condition	Normal	n/a			
				HVAC Systems Controlled	Cooling	n/a			
	Outside Air Reset Maximum Cooling Supply Temperature	[value]	°F	Setpoint Low	-(value)	°F			
				Setpoint High	-(value)	°F			
				Setpoint Type	Supply air temperature	n/a			
	Outside Air Reset Minimum Cooling Supply Temperature	[value]	°F	HVAC Systems Controlled	Cooling	n/a			
				Control Strategy	-(value)	n/a			
				Setpoint Type	Supply air temperature	n/a			
	Outside Air Temperature Upper Limit Cooling Reset Control	[value]	°F	Setpoint Setting Condition	Reset	n/a			
				HVAC Systems Controlled	Cooling	n/a			
				Setpoint High	-(value)	°F			
	Outside Air Temperature Lower Limit Cooling Reset Control	[value]	°F	Setpoint Type	Supply air temperature	n/a			
				Setpoint Setting Condition	Reset	n/a			
				HVAC Systems Controlled	Cooling	n/a			
	Rated Cooling Sensible Heat Ratio	[value]	n/a	Setpoint Low	-(value)	°F			
				Efficiency Qualifier	Rated sensible heat ratio	n/a			
				Efficiency Value	-(value)	n/a			
Other HVAC	Other HVAC Type	Humidifier	n/a	Other HVAC Type	Humidifier	n/a			
		Dehumidifier	n/a		Dehumidifier	n/a			
		Air Cleaner	n/a		Air cleaner	n/a			
		Mechanical Ventilation	n/a		Mechanical ventilation	n/a			
		Spot exhaust	n/a		(No corresponding field)	n/a			Spot exhaust is not a general option in BEDES. Other fields are required
		Natural Ventilation	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
		Ventilation Rate	[value]	cfm	Ventilation Rate	-(value)	cfm		
		Required Ventilation Rate	[value]	cfm	Required Ventilation Rate	-(value)	cfm		
	Ventilation Type	Exhaust only	n/a	Ventilation Type	Exhaust only	n/a			
		Supply only	n/a		Supply only	n/a			
		Dedicated outdoor air system	n/a		Other	n/a			
		Heat recovery ventilator	n/a		Heat recovery ventilator	n/a			
		Energy recovery ventilator	n/a		Energy recovery ventilator	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Ventilation Control Method	CO2 Sensors	n/a	Control Strategy	Demand control ventilation	n/a			
		Fixed	n/a	Sensor Type	Carbon dioxide	n/a			
				Setpoint Type	Outside air flow rate	n/a			
				Control Strategy	Fixed	n/a			
		Occupancy Sensors	n/a	Setpoint Type	Outside air flow rate	n/a			
				Control Strategy	Demand control ventilation	n/a			
				Sensor Type	Occupancy	n/a			
		Scheduled	n/a	Setpoint Type	Outside air flow rate	n/a			
				Control Strategy	Scheduled	n/a			
				Setpoint Type	Outside air flow rate	n/a			
		Other	n/a	Control Strategy	Other	n/a			
	Ventilation Zone Control	[value]	n/a	Setpoint Type	Outside air flow rate	n/a			
				Control Strategy	-(value)	n/a			
				Setpoint Type	Demand control ventilation	n/a			
	Demand Control Ventilation	True	n/a	Setpoint Type	(No corresponding field)	n/a			
		False	n/a						
	Exhaust Location	Bathroom	n/a	Ventilation Type	Exhaust only	n/a			
		Kitchen hood	n/a	Other HVAC Type	Exhaust hood kitchen	n/a			
		Laboratory hood	n/a	Other HVAC Type	Exhaust hood laboratory	n/a			
		Other	n/a	Ventilation Type	Exhaust only	n/a			
		Unknown	n/a	Ventilation Type	Exhaust only	n/a			
	Natural Ventilation Method	[value]	n/a	Natural Ventilation Method	-(value)	n/a			
	Natural Ventilation Rate	[value]	n/a	Natural Ventilation Rate	-(value)	n/a			
	Humidification Type	[value]	n/a	Humidification Type	-(value)	n/a			
	Humidity Control Minimum	[value]	n/a	Setpoint Type	Humidity	n/a			
	Humidity Control Maximum	[value]	n/a	Setpoint Low	-(value)	%			
				Setpoint Type	Humidity	n/a			
				Setpoint High	-(value)	%			
	Dehumidification Type	[value]	n/a	Dehumidification Type	-(value)	n/a			
	Makeup Air Source ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	System Performance Ratio	[value]	n/a	System Performance Ratio	-(value)	n/a			
Lighting	Lamp Type	Incandescent	n/a	Lamp Type	Incandescent	n/a			
		Linear Fluorescent	n/a		Fluorescent	n/a			
		Compact Fluorescent	n/a		Compact Fluorescent	n/a			
		Halogen	n/a		Halogen	n/a			
		High Intensity Discharge	n/a		High intensity discharge	n/a			
		Solid State Lighting	n/a		Solid State Lighting	n/a			
		Induction	n/a		Induction	n/a			
		Neon	n/a		Neon	n/a			
		Plasma	n/a		Plasma	n/a			
		Photoluminescent	n/a		Photoluminescent	n/a			
		Self-luminous	n/a		Self-luminous	n/a			
		Other Combination	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Lamp Label	[value]	n/a	Lamp Label	-(value)	n/a			
	Ballast Type	Electromagnetic	n/a	Ballast Type	Electromagnetic	n/a			
		Electronic	n/a		Electronic	n/a			
		Integrated	n/a		Integrated	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
		Core and Coil	n/a		Electromagnetic	n/a			
		F-Can	n/a		F-Can	n/a			
		Other	n/a		Other	n/a			
		No Ballast	n/a		None	n/a			
	Transformer Needed	True	n/a	Transformer Needs	Transformer Needed	n/a			
		False	n/a		No Transformer Needed	n/a			
	Fluorescent Start Type	{value}	n/a	Ballast Type	={value}	n/a			
	Metal Halide Start Type	{value}	n/a	Ballast Type	={value}	n/a			
	Lamp Length	2 ft	n/a	Length	2	ft			
		4 ft	n/a		4	ft			
		Other	n/a		(No corresponding field)				
		Unknown	n/a		(No corresponding field)				
					Unit of Measure	ft			
					Lighting Component	Lamp	n/a		
	Input Voltage	120	n/a	Input Voltage	120	V			BEDES uses a decimal value for voltage. More complex voltages cannot be captured, but it allows more uncommon values.
		208	n/a		208	V			
		240	n/a		240	V			
		277	n/a		277	V			
		347	n/a		347	V			
		480	n/a		480	V			
		120/277 (dual)	n/a		120	V			
		120-277 (universal)	n/a		120	V			
		347-480 (high voltage)	n/a		347	V			
		Other	n/a		(No corresponding field)				
	Installation Type	{value}	n/a	Installation Type	={value}	n/a			
	Lighting Direction	Direct	n/a	Lighting Direction	Direct	n/a			
		Indirect	n/a		Indirect	n/a			
		Direct-Indirect	n/a		Direct-Indirect	n/a			
		Spotlight	n/a		Spotlight	n/a			
		Floodlighting	n/a		Floodlighting	n/a			
		Omidirectional	n/a		Omidirectional	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Lighting Control Type Occupancy			Control Technology	Sensor	n/a			
		Occupancy Sensors	n/a		Sensor Type	Occupancy	n/a		
		Vacancy Sensors	n/a			Vacancy	n/a		
		Other	n/a			Other	n/a		
		Unknown	n/a			Unknown	n/a		
	Lighting Control Type Timer	None	n/a	Control Technology	None	n/a			
		{value}	n/a		Timer	n/a			
	Lighting Control Type Daylighting				Control Strategy	Daylight dimming	n/a		
					Setpoint Type	Daylight illuminance	n/a		
		Continuous	n/a		Control Strategy	Continuous dimming	n/a		
		Continuous Plus Off	n/a			Continuous dimming plus off	n/a		
		Stepped Dimming	n/a			Stepped dimming	n/a		
		Stepped Switching	n/a			Other	n/a		
		Other	n/a			Other	n/a		
		None	n/a			None	n/a		
	Lighting Control Type Manual	Unknown	n/a	Control Technology	Unknown	n/a			
		Manual On/Off	n/a		Manual	n/a			
		Manual Dimming	n/a	Control Technology	Manual dimming	n/a			
		Bi-level Control	n/a	Control Strategy	Bi-level	n/a			
					Manual	n/a			
		Tri-level Control	n/a	Control Strategy	Multi level	n/a			
					Manual	n/a			
	Other			Control Technology	Manual	n/a			
		Unknown	n/a		Manual	n/a			
		None	n/a		Manual	n/a			
	Dimming Capability	{value}	n/a	Control Strategy	Continuous dimming	n/a			There is no generic dimming term in BEDES, but it's assumed that continuous dimming is more likely than stepped.
	Minimum Dimming Light Fraction	{value}	n/a	Setpoint Type	Output fraction	n/a			
	Minimum Dimming Power Fraction	{value}	n/a	Setpoint Type	Power fraction	n/a			
	Daylighting Illuminance Setpoint	{value}	lux	Setpoint Type	Daylight illuminance				
				Setpoint Low	={value}	lux			
				Setpoint High	={value}	lux			
	Daylighting Control Steps	{value}	n/a	(No corresponding field)					
	Percent Premises Served	{value}	%	Percentage Of Total Floor Area Served	={value}	%			According to the BEDES definition, this term can be applied to a specific zone, and is therefore not limited to the total building floor area.
	Installed Power	{value}	kW	Load Category	Lighting	n/a			
				Capacity Qualifier	Connected load	n/a			
				Capacity	={value}	kW			
	Lamp Power	{value}	W/lamp	Consumption Rate	={value}	W/lamp			
				Consumption Rate Type	Watts per lamp	n/a			
	Number of Lamps per Luminaire	{value}	n/a	Quantity of Modules per System	={value}	n/a			
				Lighting Component	Lamp	n/a			
				Lighting Component	Luminaire	n/a			
	Number of Lamps per Ballast	{value}	n/a	Quantity of Modules per System	={value}	n/a			
				Lighting Component	Lamp	n/a			
				Lighting Component	Ballast	n/a			
	Number of Ballasts per Luminaire	{value}	n/a	Quantity of Modules per System	={value}	n/a			
				Lighting Component	Ballast	n/a			
				Lighting Component	Luminaire	n/a			
	Number of Luminaires	{value}	n/a	Quantity	={value}	n/a			
				Lighting Component	Luminaire	n/a			
				Lighting Component	Fixture	n/a			
	Outside Lighting	True	n/a	Location	Exterior	n/a			
		False	n/a		Interior	n/a			
	Lighting Efficacy	{value}	lm/W	Lighting Component					
				Efficiency Qualifier	Efficacy	n/a			
	Reflector Type	{value}	n/a	Efficiency Value	={value}	lm/W			
				Reflector Type	={value}	n/a			
	Work Plane Height	{value}	ft	Lighting Characteristics	Work plane height	n/a			
				Height	={value}	ft			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Luminaire Height	[value]	ft	Unit of Measure	ft	n/a			
				Height	ft	=[value]			
				Unit of Measure	ft	n/a			
	Fixture Spacing	[value]	ft	Lighting Component	Luminaire	n/a			
				Spacing	ft	=[value]			
				Unit of Measure	ft	n/a			
	Rated Lamp Life	[value]	hr	Lighting Component	Fixture	n/a			
				Useful Life	hr	=[value]			
				Unit of Measure	hour	n/a			
	Domestic Hot Water	[value]	n/a	Lighting Component	Lamp	n/a			
				Domestic Hot Water Type	=[value]	n/a			
				Tank Heating Type	=[value]	n/a			
Domestic Hot Water	Direct Tank Heating Source	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Indirect Tank Heating Source	[value]	n/a	Indirect Tank Heating Source	=[value]	n/a			
	Instantaneous Water Heating Source	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Hot Water Distribution Type	Looped	n/a	Tank Heating Type	Looped	n/a			
		Distributed	n/a		Distributed	n/a			
		Point-of-use	n/a		Distributed	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Daily Hot Water Draw	[value]	gal	Consumption Rate Type	Daily Draw	n/a			
	Tank Volume	[value]	gal	Consumption Rate	=[value]	gal			
				Domestic Hot Water Type	Storage tank	n/a			
				Capacity Qualifier	Volume	n/a			
	Tank Height	[value]	ft	Capacity	gal	=[value]			
				Unit of Measure	gallons	n/a			
				Domestic Hot Water Type	Storage tank	n/a			
	Tank Perimeter	[value]	ft	Height	ft	=[value]			
				Unit of Measure	ft	n/a			
				Domestic Hot Water Type	Storage tank	n/a			
	Water Heater Efficiency Type	Energy Factor	n/a	Perimeter	ft	=[value]			
				Unit of Measure	ft	n/a			
				Efficiency Qualifier	Energy Factor	n/a			
	Water Heater Efficiency	Thermal Efficiency	n/a		Thermal	n/a			
		[value]	n/a	Efficiency Value	=[value]	n/a			
		[value]	%	Efficiency Qualifier	Recovery	n/a			
	Storage Tank Insulation R-Value	[value]	hr-ft2-F/Btu	Efficiency Value	=[value]	n/a			
				Domestic Hot Water Type	Storage tank	n/a			
				R-Value	=[value]	hr-ft2-F/Btu			
	Storage Tank Insulation Thickness	[value]	in.	Domestic Hot Water Type	Storage tank	n/a			
				Thickness	=[value]	inches			
				Unit of Measure	inches	n/a			
	Parasitic Fuel Consumption Rate	[value]	Btu/h	Domestic Hot Water Type	Storage tank	n/a			
				Consumption Rate Type	Parasitic Fuel	n/a			
				Consumption Rate	=[value]	Btu/hr			
	Rated Heat Pump Sensible Heat Ratio	[value]	n/a	Efficiency Qualifier	Rated sensible heat ratio	n/a			
				Efficiency Value	=[value]	n/a			
				Indirect Tank Heating Source	Heat pump	n/a			
	HPWH Minimum Air Temperature	[value]	°F	Setpoint Type	Dry bulb control point	n/a			
				Setpoint Low	=[value]	°F			
				Indirect Tank Heating Source	Heat pump	n/a			
	Off-Cycle Heat Loss Coefficient	[value]	Btu/hr-ft2-°F	Efficiency Qualifier	Off-cycle heat loss coefficient	n/a			
				Efficiency Value	=[value]	Btu/h-ft2-°F			
				Domestic Hot Water Type	Storage tank	n/a			
	Hot Water Setpoint Temperature	[value]	°F	Setpoint Type	Supply water temperature	n/a			
				Setpoint Low	=[value]	°F			
				Setpoint High	=[value]	°F			
	Recirculation	[present]	n/a	Control Strategy	Recirculation	n/a			
		[not present]	n/a	(No corresponding field)					False in BuildingSync indicates the absence of a Recirculation control strategy in BEDES.
	Recirculation Loop Count	[value]	n/a	Recirculation Loop Count	=[value]	n/a			
	Recirculation Flow Rate	[value]	gal/hr	Setpoint Type	Flow Rate	n/a			
				Setpoint Low	=[value]	ft3/min	=[value]*0.002228		
				Setpoint High	=[value]	ft3/min	=[value]*0.002228		
	Recirculation Control Type			Control Strategy	Recirculation	n/a			
				Control Strategy	Recirculation	n/a			
				Control Technology	Always on	n/a			
				Continuous	n/a				
				Temperature	n/a				
				Control Technology	Thermostat	n/a			
	Recirculation Energy Loss Rate	[value]	MMBtu/hr	Control Technology	Timer	n/a			
				Demand	n/a				
				Control Technology	Manual	n/a			
				Other	n/a				
				Control Technology	Unknown	n/a			
Solar Thermal System	Solar Thermal System Type	[value]	n/a	Control Technology	Unknown	n/a			
		[value]	n/a	Efficiency Qualifier	Recirculation	n/a			
	Solar Thermal System Collector Area	[value]	ft2	Control Strategy	Recirculation	n/a			
				(No corresponding field)					
	Solar Thermal System Collector Loop Type	Air direct	n/a	Area	=[value]	ft2			
				Energy Generation Technology	Solar thermal system collector	n/a			
				Thermal Loop Configuration	Direct	n/a			
					Indirect	n/a			
					Direct	n/a			
					Indirect	n/a			
					Passive thermosyphon	n/a			
	Solar Thermal System Collector Tilt	[value]	degrees	Other	n/a				
				Unknown	n/a				
				Solar Thermal System Collector Type	=[value]	n/a			
	Solar Thermal System Collector Azimuth	[value]	degrees	Azimuth	=[value]	degrees			
				Energy Generation Technology	Solar thermal system collector	n/a			
	Solar Thermal System Collector Tilt	[value]	degrees	Tilt Angle	=[value]	degrees			
				Energy Generation Technology	Solar thermal system collector	n/a			
	Solar Thermal System Storage	[value]	gal	Capacity Qualifier	Volume	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Cooking	Volume			Capacity	=[value]	gal			
				Unit of Measure		gallons			
				Energy Generation Technology	Solar thermal system collector	n/a			
	Heating Plant ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES.
	Number of Meals	[value]	n/a	Operation Event	Meal served	n/a			
	Cooking Energy per Meal	[value]	Btu	Operation Events per Year	=[value]	n/a			
				Load Category	Cooking	n/a			
				Resource Value	=[value]	Btu		Divide [value] by associated Operation Events per Year.	
	Type of Cooking Equipment	[value]	n/a	Unit of Measure	Btu	n/a			
				Interval Frequency	Annual	n/a			
Refrigeration	Daily Water Use	[value]	gal/day	Cooking Appliance Type	=[value]	n/a			
		[value]		Load Category	Cooking	n/a			
				Water Resource	Potable water	n/a			
				Resource Value	=[value]	gallons/day			
				Unit of Measure	gallons	n/a			
				Interval Frequency	Daily	n/a			
	Refrigeration System Category	[value]	n/a	(No corresponding field)					It does not appear that BEDES has a categorization for central refrigeration systems.
	Refrigeration Unit Type	Refrigerator	n/a	Refrigeration Type	Refrigerator	n/a			
					Freezer	n/a			
					Combination	n/a			
					Other	n/a			
					Unknown	n/a			
	Size	[value]	ft3	Capacity Qualifier	Size	n/a			
				Capacity	=[value]	ft3			
	Refrigeration Energy	[value]	W	Unit of Measure	ft3	n/a			
				Load Category	Refrigeration	n/a			
				Capacity Qualifier	Connected load	n/a			
				Capacity	=[value]	W			
				Unit of Measure	W	n/a			
	Door Configuration	Side-by-side	n/a	Door Configuration	Side-by-side	n/a			
					Top-and-bottom	n/a			
					Other	n/a			
					Unknown	n/a			
	Refrigerated Case Doors	True	n/a	Cabinet Configuration	Closed case	n/a			
					Open case	n/a			
	Case Door Orientation	[value]	n/a	Case Door Orientation	=[value]	n/a			
	Case Return Line Diameter	in.		Refrigeration Dimensions	Refrigerant return line diameter	n/a			
				Dimension	=[value]	in.			
				Unit of Measure	inches	n/a			
	Defrosting Type	[value]	n/a	Defrosting Type	=[value]	n/a			
	Lamp Power	[value]	W	Load Category	Refrigeration	n/a			
				Consumption Rate Type	Watts per lamp	n/a			
				Consumption Rate	=[value]	W			
	Anti-Sweat Heaters	[present]	n/a	Refrigeration Components	Anti sweat heater equipment	n/a			
	Anti-Sweat Heater Power	[value]	W	Refrigeration Components	Anti sweat heater equipment	n/a			
				Capacity Qualifier	Connected load	n/a			
				Capacity	=[value]	W			
	Anti-Sweat Heater Controls	True	n/a	Control Technology	Anti sweat heaters	n/a			
				(No corresponding field)					
	Suction Vapor Temperature	[value]	°F	Setpoint Type	Suction vapor temperature	n/a			
	Condensing Temperature	[value]	°F	Setpoint	=[value]	°F			
				Setpoint Type	Condensing temperature	n/a			
				Setpoint	=[value]	°F			
	Split Condenser	True	n/a	Refrigeration Components	Split condenser	n/a			
				(No corresponding field)					
	Design Ambient Temperature	[value]	°F	Setpoint Type	Design ambient temperature	n/a			
				Setpoint	=[value]	°F			
	Design Temperature Difference	[value]	°F	Setpoint Type	Design temperature difference	n/a			
				Setpoint	=[value]	°F			
	Refrigeration Compressor Type	[value]	n/a	Refrigeration Compressor Type	=[value]	n/a			
	Compressor Unloader	True	n/a	Refrigeration Components	Compressor unloader	n/a			
				(No corresponding field)					
	Compressor Unloader Stages	[value]	n/a	Refrigeration Components	Compressor unloader	n/a			
				Number of Cycles	=[value]	n/a			
	Desuperheat Valve	True	n/a	Refrigeration Components	Desuperheater valve	n/a			
				(No corresponding field)					
	Crankcase Heater	True	n/a	Refrigeration Components	Crankcase heater	n/a			
				(No corresponding field)					
	Total Heat Rejection	[value]	MMBtu/hr	Load Category	Refrigeration	n/a			
				Capacity Qualifier	Waste heat	n/a			
				Capacity	=[value]	MMBtu/hr			
	Net Refrigeration Capacity	[value]	MMBtu/hr	Refrigeration Dimensions	Net refrigeration capacity	n/a			
	Number of Refrigerant Return Lines	[value]	n/a	Capacity	=[value]	MMBtu/hr			
				Refrigeration Dimensions	Number of refrigerant return lines	n/a			
				Quantity	=[value]	n/a			
	Evaporator Pressure Regulators	True	n/a	Refrigeration Components	Evaporator pressure regulators	n/a			
				(No corresponding field)					
	Refrigerant Subcooler	True	n/a	Refrigeration Components	Refrigerant subcooler	n/a			
				(No corresponding field)					
Dishwasher	Dishwasher Machine Type	[value]	n/a	Dishwasher Machine Type	=[value]	n/a			
	Dishwasher Configuration	[value]	n/a	Dishwasher Configuration	=[value]	n/a			
	Dishwasher Classification	[value]	n/a	Load Category	Dishwasher	n/a			
				Sector Classification	=[value]	n/a			
	Dishwasher Loads Per Week	[value]	loads/wk	Load Category	Dishwasher	n/a			
				Quantity	=[value]	loads/wk			
				Unit of Measure	loads/week	n/a			
	Dishwasher Energy Factor	[value]	cycles/kWh	Load Category	Dishwasher	n/a			
				Efficiency Utilifier	Energy Factor	n/a			
				Efficiency Value	=[value]	cycles/kWh			
	Dishwasher Hot Water Use	[value]	gal/cycle	Unit Of Measure	cycles/kWh	n/a			
				Load Category	Dishwasher	n/a			Assumes the dishwasher uses only hot water. BEDES does not have

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Laundry				Consumption Rate Type	Water cycle draw	n/a			a separate hot water consumption term.
	Washer Dryer Type	[value]	n/a	Consumption Rate	Laundry Appliance Type	gal/cycle			
	Laundry Type	Washer	n/a	Laundry Appliance Type	Clothes washer	n/a			
		Dryer	n/a		Clothes dryer	n/a			
		Combination	n/a		(No corresponding field)				BEDES does not have a general Combination category, but the details are mapped through the BuildingSync Washer Dryer Type term.
		Other	n/a		Other	n/a			
	Quantity of Laundry	Unknown	n/a	Quantity	Unknown	n/a			
					Load Category	lb/yr			
					Laundry	n/a			
					Interval Frequency	Annual			
	Laundry Equipment Usage	[value]	loads/wk	Unit of Measure	lbs	n/a			
				Operation Event	Laundry loads	n/a			
	Clothes Washer Classification	[value]	n/a	Operation Events per Year	Laundry	loads/yr	=integer([value]*5.143)		
				Load Category	Laundry	n/a			
	Clothes Washer Loader Type	[value]	n/a	Sector Classification	Laundry Appliance Type	n/a			
				Laundry Appliance Type	Clothes washer	n/a			
	Clothes Washer Modified Energy Factor	[value]	ft3/kWh/cycle	Laundry Configuration	Laundry	n/a			
				Clothes Washer Modified Energy Factor	Laundry	ft3/kWh/cycle			
	Clothes Washer Water Factor	[value]	gal/cycle/ft3	Laundry Appliance Type	Clothes washer	n/a			
				Efficiency Qualifier	Water Factor	n/a			
	Clothes Washer Capacity	[value]	ft3	Efficiency Value	Laundry Appliance Type	gal/cycle/ft3			
				Laundry Appliance Type	Clothes washer	n/a			
				Capacity Qualifier	Volume	n/a			
				Capacity	ft3	n/a			
	Dryer Classification	[value]	n/a	Unit of Measure	ft3	n/a			
				Laundry Appliance Type	Clothes dryer	n/a			
	Dryer Electric Energy Use Per Load	[value]	kWh/load	Sector Classification	Laundry	n/a			
				Laundry Appliance Type	Clothes dryer	n/a			
	Dryer Gas Energy Use Per Load	[value]	Btu/load	Consumption Rate Type	Energy cycle draw	n/a			
				Consumption Rate	Laundry Appliance Type	n/a			
				Consumption Rate	Clothes dryer	n/a			
				Consumption Rate Type	Energy cycle draw	n/a			
				Consumption Rate	Laundry Appliance Type	n/a			
				Consumption Rate	Energy cycle draw	Btu/load			
Pump	Pump Efficiency	[value]	%	Unit of Measure	Btu	n/a			
				Process Load Type	Pump	n/a			
				Efficiency Qualifier	Efficiency	n/a			
				Efficiency Value	Efficiency	n/a			
	Pump Maximum Flow Rate	[value]	gpm	Process Load Type	Pump	n/a			These aren't really setpoints, they are limitations of the pump. But this appears to be the only way to map the data.
				Setpoint Type	Flow Rate	n/a			
				Setpoint High	Flow Rate	ft3/min	=(value)*0.133681		
	Pump Minimum Flow Rate	[value]	gpm	Process Load Type	Pump	n/a			These aren't really setpoints, they are limitations of the pump. But this appears to be the only way to map the data.
				Setpoint Type	Flow Rate	n/a			
	Pump Installed Flow Rate	[value]	gpm	Setpoint Low	Flow Rate	ft3/min	=(value)*0.133681		
				Process Load Type	Pump	n/a			
				Setpoint Type	Flow Rate	n/a			
				Setpoint Setting Condition	Normal	n/a			
	Pump Power Demand	[value]	kW	Setpoint	Flow Rate	ft3/min	=(value)*0.133681		
				Process Load Type	Pump	n/a			
				Consumption Rate Type	Rated power	n/a			
				Consumption Rate	Rated power	kW			
	Pump Control Type			Unit of Measure	kW	n/a			
				Process Load Type	Pump	n/a			
				Control Strategy	Average flow	n/a			
				Constant Volume	Variable flow	n/a			
				Variable Volume	Variable flow	n/a			
	Pump Operation	[value]	n/a	VFD	Variable flow	n/a			
				Multi-Speed	Multi level	n/a			
				Other	Other	n/a			
	Pumping Configuration	[value]	n/a	Unknown	Unknown	n/a			
				Process Load Type	Pump	n/a			
Fan	Pump Application	[value]	n/a	Operational Mode	Laundry	n/a			
				Process Load Type	Pump	n/a			
	Fan Efficiency	[value]	%	Priority	Laundry	n/a			
				Pump Application	Laundry	n/a			
	Fan Size	[value]	cfm	Efficiency Qualifier	Fan	n/a			
				Efficiency Value	Fan	%			
	Installed Flow Rate	[value]	cfm	Size	Installed Flow Rate	ft3/min			
	Minimum Flow Rate	[value]	cfm	Installed Flow Rate	Installed Flow Rate	ft3/min			
	Maximum Fan Power	[value]	W	Minimum Flow Rate	Minimum Flow Rate	ft3/min			
	Fan Power Minimum Ratio	[value]	n/a	Maximum Fan Power	Maximum Fan Power	W			
	Fan Type	[value]	n/a	Fan Power Minimum Ratio	Fan Power Minimum Ratio	n/a			
	Fan Application	[value]	n/a	Fan Type	Fan Type	n/a			
	Flow Control Type	[value]	n/a	Fan Application	Fan Application	n/a			
	Fan Placement	[value]	n/a	Flow Control Type	Flow Control Type	n/a			
	Motor Location Relative to Air Stream	True	n/a	Fan Placement	Fan Placement	n/a			
	Design Static Pressure	[value]	Pa	Motor Location Relative to Air Stream	Within air stream	n/a			
	Number of Discrete Fan Speeds - Cooling	[value]	n/a	Not within air stream	Not within air stream	n/a			
	Number of Discrete Fan Speeds - Heating	[value]	n/a	Design Static Pressure	Design Static Pressure	Pa			
				HVAC Systems Controlled	Cooling	n/a			
	Belt Type	[value]	n/a	Number of Discrete Fan Speeds	Number of Discrete Fan Speeds	n/a			
				HVAC Systems Controlled	Heating	n/a			
Motor	Linked System ID	[value]	n/a	Number of Discrete Fan Speeds	Number of Discrete Fan Speeds	n/a			
	Motor RPM	[value]	rpm	Belt Type	Belt Type	n/a			Hierarchical element not used in BEDES
				(No corresponding field)	(No corresponding field)	n/a			
	Motor Brake HP	[value]	hp	Motor Characteristic	RPM	n/a			
				Motor Characteristic Value	Motor Characteristic Value	rpm			
Motor HP	[value]	[value]	hp	Motor Characteristic	Brake horsepower	n/a			
				Motor Characteristic Value	Motor Characteristic Value	hp			
	Motor HP	[value]	hp	Motor Characteristic	Horsepower	n/a			
				Motor Characteristic Value	Motor Characteristic Value	hp			



BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Motor Efficiency	[value]	%	Efficiency Qualifier	Motor	n/a			
	Drive Efficiency	[value]	%	Efficiency Value	=[value]	%			
				Efficiency Qualifier	Drive	n/a			
				Efficiency Value	=[value]	%			
	Full Load Amps	[value]	amps	Motor Characteristic	Full load amps	n/a			
				Motor Characteristic Value	=[value]	amps			
Heat Recovery	Motor Pole Count	[value]	n/a	Motor Characteristic	Pole count	n/a			
				Motor Characteristic Value	=[value]	n/a		Convert integer to decimal	
	Motor Enclosure Type	[value]	n/a	Motor Enclosure	=[value]	n/a			
	Motor Application	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Heat Recovery Efficiency	[value]	%	Efficiency Qualifier	Heat recovery	n/a			
				Efficiency Value	=[value]	%			
	Energy Recovery Efficiency	[value]	%	Efficiency Qualifier	Energy recovery	n/a			
				Efficiency Value	=[value]	%			
	Heat Recovery Type	[value]	n/a	Heat Recovery Type	=[value]	n/a			
	System ID Receiving Heat	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	System ID Providing Heat	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Exterior Wall Construction	[value]	n/a	Opaque Surface	Wall	n/a			
Wall	Exterior Wall Finish	[value]	n/a	Construction Method	=[value]	n/a			
				Opaque Surface	Wall	n/a			
				Location	Exterior	n/a			
				Finish	=[value]	n/a			
	Exterior Wall Color	[value]	n/a	Opaque Surface	Wall	n/a			
				Location	Exterior	n/a			
				Color	=[value]	n/a			
	Wall Insulation Application	[value]	n/a	Opaque Surface	Wall	n/a			
				Insulation Application	=[value]	n/a			
	Wall Insulation Material	[value]	n/a	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
				Material	=[value]	n/a			
	Wall Framing Material	[value]	n/a	Opaque Surface	Wall	n/a			
				Material Qualifier	Framing	n/a			
				Material	=[value]	n/a			
	Wall Insulation Thickness	[value]	in.	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
				Thickness	=[value]	ft	=[value]/12		
				Unit of Measure	inches	n/a			
	Wall Insulation Continuity	[value]	n/a	Opaque Surface	Wall	n/a			
				Insulation Continuity	=[value]	n/a			
	Wall Insulation Condition	[value]	n/a	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
				Condition	=[value]	n/a			
	Wall Insulation Location	[value]	n/a	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
				Location	=[value]	n/a			
	Wall Framing Spacing	[value]	in.	Opaque Surface	Wall	n/a			
				Material Qualifier	Framing	n/a			
				Spacing	=[value]	ft	=[value]/12		
	Wall Framing Depth	[value]	in.	Opaque Surface	Wall	n/a			
				Material Qualifier	Framing	n/a			
				Depth	=[value]	ft	=[value]/12		
	Wall Framing Factor	[value]	%	Opaque Surface	Wall	n/a			
				Framing Factor	=[value]	%			
	CMU Fill	[value]	n/a	(No corresponding field)					
	Wall Exterior Solar Absorptance	[value]	%	Opaque Surface	Wall	n/a			
				Location	Exterior	n/a			
				Solar Absorptance	=[value]	%			
	Wall Exterior Thermal Absorptance	[value]	%	Opaque Surface	Wall	n/a			
				Location	Exterior	n/a			
				Thermal Absorptance	=[value]	%			
	Interior Visible Absorptance	[value]	%	Opaque Surface	Wall	n/a			
				Location	Interior	n/a			
				Visible Absorptance	=[value]	%			
	Tightness	[value]	n/a	Air Infiltration Description	=[value]	n/a			
	Locations of Exterior Water Intrusion Damage	[value]	n/a	(No corresponding field)					
	Locations of Interior Water Intrusion Damage	[value]	n/a	(No corresponding field)					
	Wall R Value	[value]	hr-ft2-f/Btu	Opaque Surface	Wall	n/a			
				R Value	=[value]	hr-ft2-f/Btu			
	Wall U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface	Wall	n/a			
				U Factor	=[value]	Btu/hr-ft2-°F			
	Wall Insulation R Value	[value]	hr-ft2-f/Btu	Opaque Surface	Wall	n/a			
				Material Qualifier	Insulation	n/a			
				R-Value	=[value]	hr-ft2-f/Btu			
	Exterior Roughness	[value]	n/a	Opaque Surface	Wall	n/a			
				Location	Exterior	n/a			
				Surface Roughness	=[value]	n/a			
	Air Infiltration Value	[value]	n/a	Air Infiltration Value	=[value]	n/a			
	Air Infiltration Value Units	[value]	n/a	Air Infiltration Value Units	=[value]	n/a			
	Air Infiltration Test	[value]	n/a	Air Infiltration Test	=[value]	n/a			
Roof	Roof Construction	[value]	n/a	Opaque Surface	Roof	n/a			
				Construction Method	=[value]	n/a			
	Special Roof Classification	[value]	n/a	Opaque Surface	Roof	n/a			
				Construction Method	=[value]	n/a			
	Roof Finish	[value]	n/a	Opaque Surface	Roof	n/a			
				Location	Exterior	n/a			
				Finish	=[value]	n/a			
	Roof Color	[value]	n/a	Opaque Surface	Roof	n/a			
				Location	Exterior	n/a			
				Color	=[value]	n/a			
	Deck Type	[value]	n/a	Opaque Surface	Roof deck	n/a			
				Material Qualifier	Framing	n/a			
				Material	=[value]	n/a			
	Roof Insulation Application	[value]	n/a	Opaque Surface	Roof	n/a			
				Insulation Application	=[value]	n/a			
	Roof Insulation Material	[value]	n/a	Opaque Surface	Roof	n/a			
				Material Qualifier	Insulation	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Roof Insulation Thickness	[value]	in.	Material Opaque Surface Material Qualifier Thickness	=[value] Roof Insulation Thickness	n/a n/a n/a ft			
	Roof Insulation Continuity	[value]	n/a	Opaque Surface Insulation Continuity	Roof =([value])	n/a n/a			
	Roof Insulation Condition	[value]	n/a	Opaque Surface Material Qualifier Condition	Roof Insulation =([value])	n/a n/a n/a			
	Roof Framing Material	[value]	n/a	Opaque Surface Material Qualifier Material	Roof Framing =([value])	n/a n/a n/a			
	Roof Framing Spacing	[value]	in.	Opaque Surface Material Qualifier Spacing	Roof Framing =([value])	n/a n/a ft			
	Roof Framing Depth	[value]	in.	Opaque Surface Material Qualifier Depth	Roof Framing =([value])	n/a n/a ft			
	Roof Framing Factor	[value]	%	Opaque Surface Framing Factor	Roof =([value])	n/a %			
	Roof Exterior Solar Absorptance	[value]	%	Opaque Surface Location Solar Absorptance	Roof Exterior =([value])	n/a n/a %			
	Roof Exterior Thermal Absorptance	[value]	%	Opaque Surface Location Thermal Absorptance	Roof Exterior =([value])	n/a n/a %			
	Roof Slope	[value]	%	Opaque Surface Tilt Description	Roof =([value])	n/a %			
	Radiant Barrier	True	n/a	Opaque Surface Radiant Barrier	Roof Foil backed material	n/a n/a			
		False	n/a		No radiant barrier	n/a			
	Roof R Value	[value]	hr-ft2-F/Btu	Opaque Surface R-Value	Roof =([value])	n/a hr-ft2-F/Btu			
	Roof U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface U Factor	Roof =([value])	n/a Btu/hr-ft2-°F			
	Roof Insulation R Value	[value]	hr-ft2-F/Btu	Opaque Surface Material Qualifier R-Value	Roof Insulation =([value])	n/a n/a hr-ft2-F/Btu			
Ceiling	Ceiling Construction	[value]	n/a	Opaque Surface Construction Method	Ceiling =([value])	n/a n/a			
	Ceiling Finish	[value]	n/a	Opaque Surface Location Finish	Ceiling Interior =([value])	n/a n/a n/a			
	Ceiling Color	[value]	n/a	Opaque Surface Location Color	Ceiling Interior =([value])	n/a n/a n/a			
	Ceiling Insulation Application	[value]	n/a	Opaque Surface Insulation Application	Ceiling =([value])	n/a n/a			
	Ceiling Insulation Material	[value]	n/a	Opaque Surface Material Qualifier Material	Ceiling Insulation =([value])	n/a n/a n/a			
	Ceiling Insulation Thickness	[value]	in.	Opaque Surface Material Qualifier Thickness	Ceiling Insulation =([value])	n/a n/a ft			
	Ceiling Insulation Continuity	[value]	n/a	Opaque Surface Insulation Continuity	Ceiling =([value])	n/a n/a			
	Ceiling Insulation Condition	[value]	n/a	Opaque Surface Material Qualifier Condition	Ceiling Insulation =([value])	n/a n/a n/a			
	Ceiling Framing Material	[value]	n/a	Opaque Surface Material Qualifier Material	Ceiling Framing =([value])	n/a n/a n/a			
	Ceiling Framing Spacing	[value]	in.	Opaque Surface Material Qualifier Spacing	Ceiling Framing =([value])	n/a n/a ft			
	Ceiling Framing Depth	[value]	in.	Opaque Surface Material Qualifier Depth	Ceiling Framing =([value])	n/a n/a ft			
	Ceiling Framing Factor	[value]	%	Opaque Surface Framing Factor	Ceiling =([value])	n/a %			
	Ceiling Visible Absorptance	[value]	%	Opaque Surface Location Visible Absorptance	Ceiling Interior =([value])	n/a n/a %			
	Ceiling R Value	[value]	hr-ft2-F/Btu	Opaque Surface R Value	Ceiling =([value])	n/a hr-ft2-F/Btu			
	Ceiling U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface U Factor	Ceiling =([value])	n/a Btu/hr-ft2-°F			
Fenestration	Fenestration Type	[value]	n/a	Fenestration	=([value])	n/a			
	Glass Type	[value]	n/a	Fenestration Glazing Type	=([value])	n/a			
	Fenestration Operation	True	n/a	Fenestration Operation	Operable	n/a			
		False	n/a		Non-operable	n/a			
	Fenestration Gas Fill	Argon	n/a	Fenestration Gas Fill	Argon	n/a			
		Krypton	n/a		Krypton	n/a			
		Other Insulating Gas	n/a		Other	n/a			
		Air	n/a		Air	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Fenestration Glass Layers	[value]	n/a	Fenestration Glass Layer Description	=([value])	n/a			
	Visible Transmittance	[value]	%	Opaque Surface Component Visible Transmittance	Fenestration =([value])	n/a %			
	Fenestration Frame Material	[value]	n/a	Fenestration Frame Material	=([value])	n/a			
	Fenestration R Value	[value]	hr-ft2-F/Btu	Opaque Surface Component R Value	Fenestration =([value])	n/a hr-ft2-F/Btu			
	Fenestration U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface Component U Factor	Fenestration =([value])	n/a Btu/hr-ft2-°F			
	Solar Heat Gain Coefficient	[value]	%	Solar Heat Gain Coefficient	=([value])	%			
	Window Orientation	[value]	n/a	Fenestration	Window	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Window Layout	[value]	n/a	Cardinal Orientation	=[value]	n/a			
	Exterior Shading Type	[value]	n/a	Fenestration Layout	=[value]	n/a			
	Overhang Height above Window	[value]	ft	Location Shading System	Exterior =[value]	n/a			BEDES does not have qualifiers that identify this term as offset relative to the window.
	Overhang Projection	[value]	ft	Shading System	Overhang Offset =[value]	ft			
	Vertical Fin Depth	[value]	ft	Shading System	Overhang Depth =[value]	n/a			
	Distance Between Vertical Fins	[value]	ft	Shading System	Fin Depth =[value]	ft			
	Vertical Edge Fin Only	[value]	n/a	Shading System	Fin Spacing =[value]	n/a			
	Light Shelves	[presence]	n/a	(No corresponding field)					
	Light Shelf Distance from Top	[value]	ft	Shading System	Light shelf	n/a			
	Light Shelf Exterior Protrusion	[value]	ft	Shading System	Light shelf Offset =[value]	ft			
	Light Shelf Interior Protrusion	[value]	ft	Shading System	Light shelf Location Depth =[value]	n/a			
	Interior Shading Type	[value]	n/a	Shading System	Light shelf Location Interior Depth =[value]	n/a			
	Window Sill Height	[value]	ft	Fenestration	Window Sill Height =[value]	ft			
	Window Height	[value]	ft	Fenestration	Window Height =[value]	n/a			
	Window Width	[value]	ft	Fenestration	Window Width =[value]	ft			
	Window Horizontal Spacing	[value]	ft	Fenestration	Window Spacing =[value]	n/a			
	Weatherstripped	True	n/a	Weatherstrip Status	Weatherstripped	n/a			
	Skylight Layout	[value]	n/a	(No corresponding field)	Not weatherstripped	n/a			
	Skylight Pitch	[value]	ft/ft	Fenestration	Skylight Tilt Angle =[value]	n/a			
	Skylight Window Treatments	[value]	n/a	Fenestration	Skylight Shading System =[value]	degrees	=atan(value)*57.296		
	Skylight Solar tube	True	n/a	Fenestration	Tubular skylight	n/a			
	Exterior Door Type	[value]	n/a	(No corresponding field)					
	Vestibule	[value]	n/a	Door Construction	=[value]	n/a			
	Door Operation	[value]	n/a	(No corresponding field)					
	Door Glazed Area Fraction	[value]	%	Fenestration	Door Percent Glazing	n/a			
	Tightness Fit Condition	[value]	n/a	(No corresponding field)		%			
Foundation	Ground Coupling	Slab on grade	n/a	Foundation Ground Coupling	Slab	n/a			
		Crawlspace	n/a		Crawlspace	n/a			
		Basement	n/a		Basement	n/a			
		Other	n/a		Other	n/a			
	Slab Area	Unknown	n/a	Foundation Ground Coupling	Unknown	n/a			
	Slab Insulation Orientation	[value]	n/a	Area	Slab Area =[value]	ft <sup>2</sup>			
	Slab Perimeter	[value]	ft	(No corresponding field)					
	Slab Exposed Perimeter	[value]	ft	Foundation Ground Coupling	Slab Perimeter =[value]	n/a			
	Slab Insulation Thickness	[value]	in.	Foundation Ground Coupling	Slab Perimeter =[value]	ft			
	Slab Insulation Condition	[value]	n/a	Foundation Ground Coupling	Slab Material Qualifier Thickness =[value]	n/a			
	Slab Heating	[value]	n/a	Foundation Ground Coupling	Slab Material Qualifier Insulation =[value]	ft	=[value]/12		
	Crawlspace Venting	[value]	n/a	Conditioning Status	Slab Conditioning Status =[value]	n/a			
	Basement Conditioning	[value]	n/a	Foundation Ground Coupling	Basement Conditioning Status =[value]	n/a			
	Floor Covering	Carpet	n/a	Opaque Surface	Floor	n/a			
		Tile	n/a	Finish	Carpet	n/a			
		Hardwood	n/a		Tile	n/a			
		Vinyl	n/a		Wood	n/a			
		Linoleum	n/a		Plastic rubber synthetic sheeting	n/a			
		Other	n/a		Linoleum	n/a			
	Unknown	n/a			Other	n/a			
	Plumbing Penetration Sealing	[value]	n/a	Plumbing Penetration Sealing	Unknown	n/a			
	Floor Construction Type	[value]	n/a	Opaque Surface	Floor Construction Method =[value]	n/a			
	Floor Insulation Thickness	[value]	in.	Opaque Surface	Floor Material Qualifier Thickness =[value]	n/a			
	Floor Insulation Condition	[value]	n/a	Opaque Surface	Floor Material Qualifier Insulation Condition =[value]	ft	=[value]/12		
	Floor R Value	[value]	hr-ft <sup>2</sup> -f/Btu	Opaque Surface	Floor R Value =[value]	n/a			
	Floor U Factor	[value]	Btu/hr-ft <sup>2</sup> -f	Opaque Surface	Floor U Factor =[value]	n/a			
	Floor Framing Spacing	[value]	in.	Opaque Surface	Floor Material Qualifier Spacing =[value]	Btu/hr-ft <sup>2</sup> -f			
					Framing	n/a			
					Spacing	ft	=[value]/12		

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Floor Framing Depth	[value]	in.	Opaque Surface	Floor	n/a			
				Material Qualifier	Framing	n/a			
				Depth	Depth	n/a	=(value)/12		
	Floor Framing Factor	[value]	%	Opaque Surface	Floor	n/a			
				Framing Factor	=(value)	%			
	Foundation Wall Construction	[value]	n/a	Opaque Surface	Foundation wall	n/a			
				Construction Method	=(value)	n/a			
	Foundation Height Above Grade	[value]	ft	Location	Above grade	n/a			
				Foundation Height	=(value)	ft			
	Foundation Wall Insulation Thickness	[value]	in.	Opaque Surface	Foundation wall	n/a			
				Material Qualifier	Insulation	n/a			
				Thickness	=(value)	ft	=(value)/12		
	Foundation Wall R Value	[value]	hr-ft2-f/Btu	Opaque Surface	Foundation wall	n/a			
				R Value	=(value)	hr-ft2-f/Btu			
Critical IT System	Foundation Wall U Factor	[value]	Btu/hr-ft2-°F	Opaque Surface	Foundation wall	n/a			
				U Factor	=(value)	Btu/hr-ft2-°F			
	Foundation Wall Insulation Continuity	[value]	n/a	Opaque Surface	Foundation wall	n/a			
				Insulation Continuity	=(value)	n/a			
	Foundation Wall Insulation Condition	[value]	n/a	Opaque Surface	Foundation wall	n/a			
				Material Qualifier	Insulation	n/a			
				Condition	=(value)	n/a			
	IT System Type	Data Center	n/a	Occupancy Classification	Data center	n/a			
		Server	n/a	Electronic Equipment Type	Server	n/a			
		Networking	n/a	Network Equipment Type	Network equipment	n/a			
		Security	n/a	Occupancy Classification	Security room	n/a			
		Telephoning	n/a	Electronic Equipment Type	Telephone	n/a			
		UPS	n/a	Uninterruptible Power Supplies	UPS	n/a			
		Other	n/a	Electronic Equipment Type	Other	n/a			
		Unknown	n/a	Electronic Equipment Type	Unknown	n/a			
Plug Loads	IT Peak Power	[value]	W	End Use	IT Equipment	n/a			
				Consumption Rate Type	Rated power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	IT Standby Power	[value]	W	End Use	IT Equipment	n/a			
				Consumption Rate Type	Idle power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	IT Nominal Power	[value]	W	End Use	IT Equipment	n/a			
				Consumption Rate Type	Nominal power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Plug Load Type	Personal Computer	n/a	Electronic Equipment Type	Computer	n/a			
		Task Lighting	n/a	Electronic Equipment Type	Other	n/a			
Process Load		Printing	n/a	Electronic Equipment Type	Imaging	n/a			
		Cash Register	n/a	Computer Type	Cash register	n/a			
		Audio	n/a	Electronic Equipment Type	Audio	n/a			
		Display	n/a	Electronic Equipment Type	Display	n/a			
		Set Top Box	n/a	Electronic Equipment Type	Set top box	n/a			
		Business Equipment	n/a	Electronic Equipment Type	Other	n/a			
		Other	n/a	Electronic Equipment Type	Other	n/a			
		Unknown	n/a	Electronic Equipment Type	Unknown	n/a			
	Plug Load Peak Power	[value]	W	End Use	Plug Load	n/a			
				Consumption Rate Type	Rated power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Plug Load Standby Power	[value]	W	End Use	Plug Load	n/a			
				Consumption Rate Type	Idle power	n/a			
				Consumption Rate	=(value)	W			
	Plug Load Nominal Power	[value]	W	End Use	Plug Load	n/a			
				Consumption Rate Type	Nominal power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Miscellaneous Electric Load	[value]	W/ft2	(No corresponding field)					BEDES does not aggregate loads at this level, and it's impossible to map general loads to the more detailed fields in BEDES. This mapping is addressed through more specific BuildingSync terms.
Conveyance	Process Load Type	Medical Equipment	n/a	Process Load Type	Medical equipment	n/a			
		Laboratory Equipment	n/a		Laboratory equipment	n/a			
		Machinery	n/a		Machinery	n/a			
		Air Compressor	n/a		Air compressor	n/a			
		Fume Hood	n/a		Fume hood	n/a			
		Appliance	n/a		Other	n/a			
		Gaming/Hobby/Leisure	n/a		Other	n/a			
		Infrastructure	n/a		Infrastructure	n/a			
		Electric Vehicle Charging	n/a		Electric vehicle charging	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Process Load Peak Power	[value]	W	Load Category	Process	n/a			
				Consumption Rate Type	Rated power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Process Load Standby Power	[value]	W	Load Category	Process	n/a			
				Consumption Rate Type	Idle power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Heat Gain Fraction	[value]	%	(No corresponding field)					
	Miscellaneous Gas Load	[value]	kBtu/ft2	(No corresponding field)					BEDES does not aggregate loads at this level, and it's impossible to map general loads to the more detailed fields in BEDES. This mapping is addressed through more specific BuildingSync terms.
Conveyance	Conveyance System Type	[value]	n/a	Conveyance System Type	=(value)	n/a			
	Conveyance Load Type	[value]	n/a	Conveyance Load Type	=(value)	n/a			
	Conveyance Peak Power	[value]	W	Load Category	Conveyance	n/a			
				Consumption Rate Type	Rated power	n/a			
				Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Conveyance Standby Power	[value]	W	Load Category	Conveyance	n/a			
				Consumption Rate Type	Idle power	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
On-Site Storage, Transmission, Generation	Energy Conversion Type	[value]	n/a	Consumption Rate	=(value)	W			
				Unit Of Measure	W	n/a			
	Onsite Generation Type	PV	n/a	(No corresponding field)					
		Other	n/a	Energy Generation Technology	Photovoltaic	n/a			Hierarchical element not used in BEDES
				(No corresponding field)					This is primarily a hierarchical element in BuildingSync. If "Other" is selected, then Other Energy Generation Technology provides more detail.
	Other Energy Generation Technology	[value]	n/a	Energy Generation Technology	=(value)	n/a			
	Output Resource Type	[value]	n/a	Output Resource Type	=(value)	n/a			
	Backup Generator	True	n/a	Find Use	Generator	n/a			
		False	n/a	Priority	Backup	n/a			
				(No corresponding field)					
	Demand Reduction	[value]	n/a	(No corresponding field)					
	Photovoltaic System Number of Modules per Array	[value]	n/a	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Array	n/a			
				Quantity of Modules per System	=(value)	n/a			
	Photovoltaic System Number of Arrays	[value]	n/a	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Array	n/a			
				Quantity	=(value)	n/a			
	Photovoltaic System Maximum Power Output	[value]	Wdc	Energy Generation Technology	Photovoltaic	n/a			
				Resource Generation	Renewable	n/a			
				Consumption Rate Type	Maximum power output	n/a			
				Resource Value	=(value)	W			
	Photovoltaic System Inverter Efficiency	[value]	%	Unit of Measure	W	n/a			
				Energy Generation Technology	Photovoltaic	n/a			
				Efficiency Qualifier	Energy conversion	n/a			
				Efficiency Value	=(value)	%			
	Photovoltaic System Array Azimuth	[value]	degrees	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Array	n/a			
				Azimuth	=(value)	degrees			
	Photovoltaic System Racking System Tilt Angle Min	[value]	degrees	Energy Generation Technology	Photovoltaic	n/a			In BEDES, tilt angle is not a Setpoint Type, and there is no maximum or minimum Tilt Angle qualifier. Therefore this term cannot be mapped perfectly.
				Technology Component	Racking System	n/a			
				Tilt Angle	=(value)	degrees			
	Photovoltaic System Racking System Tilt Angle Max	[value]	degrees	Energy Generation Technology	Photovoltaic	n/a			In BEDES, tilt angle is not a Setpoint Type, and there is no maximum or minimum Tilt Angle qualifier. Therefore this term cannot be mapped perfectly.
				Technology Component	Racking system	n/a			
				Tilt Angle	=(value)	degrees			
	Photovoltaic System Location	[value]	n/a	Energy Generation Technology	Photovoltaic	n/a			
				Location	=(value)	n/a			
	Photovoltaic Module Rated Power	[value]	W	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Module	n/a			
				Resource Generation	Renewable	n/a			
				Consumption Rate Type	Rated power	n/a			
				Unit of Measure	W	n/a			
	Photovoltaic Module Length	[value]	in	Consumption Rate	=(value)	W			
				Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Module	n/a			
				Length	=(value)	ft	=(value)/12		
	Photovoltaic Module Width	[value]	in	Energy Generation Technology	Photovoltaic	n/a			
				Technology Component	Module	n/a			
				Width	=(value)	ft	=(value)/12		
	External Power Supply	[value]	n/a	External Power Supply Mode	=(value)	n/a			
Pool	Energy Storage Technology	[value]	n/a	Energy Storage Technology	=(value)	n/a			
	Thermal Medium	[value]	n/a	Thermal Medium	=(value)	n/a			
	Pool Type	[value]	n/a	Water Feature Type	=(value)	n/a			
	Pool Size Category	[value]	n/a	Pool Size Category	=(value)	n/a			
	Heated			Water Feature Type	Pool	n/a			BuildingSync groups pools and hot tubs in the overall Pool category. They are differentiated by the PoolType term, but not for other attributes. These other attributes are all mapped to the "Pool" Water Feature Type in BEDES for simplicity.
		[presence]	n/a						
		[absence]	n/a	Water Feature Heating Method	Artificial	n/a			
					Passive	n/a			
	Water Temperature	[value]	°F	Water Feature Type	Pool	n/a			
				Setpoint Type	Mixed water temperature	n/a			
				Setpoint	=(value)	°F			
	Hours Uncovered	[value]	hrs/day	(No corresponding field)					
	Pool Area	[value]	ft2	Water Feature Type	Pool	n/a			
				Area	=(value)	ft2			
Water Use	Pool Volume	[value]	gal	Water Feature Type	Pool	n/a			
				Volume	=(value)	ft3	=(value)*0.133681		
	Pump Duty Cycle	[value]	%	Water Feature Type	Pool	n/a			
				Process Load Type	Pump	n/a			
				Duty Cycle	=(value)	%			
	Water Use Type	Restroom Sink Use	n/a	Water Fixture Type	Sink	n/a			
		Restroom Toilet/Urinal Water Use	n/a		Toilet	n/a			
		Kitchen Water Use	n/a		Other	n/a			
		Shower Facility Water Use	n/a		Bath	n/a			
		Drinking Fountain Water Use	n/a		Other	n/a			
		Janitorial Water Use	n/a		Other	n/a			
		Laundry Water Use	n/a		Other	n/a			
		Indoor Washdown Water Use (if indoor)	n/a		Other	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
		Outdoor Landscape Water Use	n/a		Other	n/a			
		Outdoor Non-Landscape Water Use	n/a		Other	n/a			
		Outdoor Washdown Water Use (if outdoor)	n/a		Other	n/a			
		Cooling Tower Make-up Water Use	n/a		Other	n/a			
		Hydronic Loop Make-up Water Use	n/a		Other	n/a			
		Evaporative Cooling System Water Use	n/a		Other	n/a			
		Pre-Treatment Process Water Use	n/a		Other	n/a			
		Captured Rain Water	n/a		Other	n/a			
		Recycled Greywater	n/a		Other	n/a			
		Condensate Recovery	n/a		Other	n/a			
		Stormwater Sewer Production	n/a		Other	n/a			
		Stormwater Discharge	n/a		Other	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Water Resource	[value]	n/a	Resource	-(value)	n/a			
	Water Fixture Rated Flow Rate	[value]	gpm	Load Category	Water feature	n/a			
	Low Flow Fixtures	[value]	n/a	Setpoint Type	Flow Rate	n/a			
				Setpoint	-(value)	ft3/min	=(value)*0.13368		
	Water Fixture Volume per Cycle	[value]	gal/cycle	(No corresponding field)					
				Load Category	Water feature	n/a			
				Consumption Rate Type	Water cycle draw	n/a			
	Water Fixture Cycles per Day	[value1] [value2]	cycles/day gal/cycle	Consumption Rate	-(value)	gal/cycle			
				Load Category	Water feature	n/a			
				Consumption Rate Type	Daily Draw	n/a			
				Consumption Rate	-(value1)*[value2]	gallons/day			
	Water Fixture Fraction Hot Water	[value]	%	Unit of Measure	gallons/day	n/a			
				(No corresponding field)					
Global Elements	Quantity	[value]	n/s	Quantity	-(value)	n/a			
	Location	[value]	n/a	Location	-(value)	n/a			
	Control Technology	Programmable Thermostat	n/a	Control Technology	Thermostat	n/a			
				Control Strategy	Programmable	n/a			
		Manual Analog Thermostat	n/a	Control Technology	Thermostat	n/a			
		Manual Digital Thermostat	n/a		Thermostat	n/a			
		Manual On/Off	n/a		Manual	n/a			
		EMCS	n/a		Energy Management and Controls System	n/a			
		Always On	n/a		Always on	n/a			
		Timer	n/a		Timer	n/a			
		Other	n/a		Other	n/a			
		Unknown	n/a		Unknown	n/a			
	Primary Fuel	[value]	n/a	Resource	-(value)	n/a			
	Year Installed	[value]	CCYY	Date Status	Installed	n/a			
				Date	-(value)	CCYY			
				Date Format	Year	n/a			
	Year of Manufacture	[value]	CCYY	Year of Manufacture	-(value)	CCYY			
	Manufacturer	[value]	n/a	Manufacturer	-(value)	n/a			
	Model Number	[value]	n/a	Model Number	-(value)	n/a			
	Capacity	[value]	n/a	Capacity	-(value)	n/a			
	Capacity Units	[value]	n/a	Unit of Measure	-(value)	n/a			
	Duty Cycle	[value]	n/a	Duty Cycle	-(value)	n/a			
	Third Party Certification	[value]	n/a	Equipment Rating	-(value)	n/a			
	Linked Premises	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Schedule ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Site ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Facility ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Space ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Thermal Zone ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Linked Subsection ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
Metadata	Source	Default	n/a	Derivation Method	Default	n/a			Hierarchical element not used in BEDES
		Estimate	n/a		Estimated	n/a			
		Government record	n/a	Origin	Government record	n/a			
		Agent	n/a		Agent	n/a			
		Assessor	n/a		Assessor	n/a			
		Auditor	n/a		Auditor	n/a			
		Product specification	n/a		Product specification	n/a			
		Building Component Library	n/a		Building Component Library	n/a			
		Utility transfer	n/a		Utility transfer	n/a			
		Energy Management System	n/a		Energy Management System	n/a			
		Drawings	n/a		Drawings	n/a			
		Direct measurement	n/a		Direct measurement	n/a			
		Design files	n/a		Design files	n/a			
		Simulation	n/a		Simulation	n/a			
		ENERGY STAR Portfolio Manager	n/a		ENERGY STAR Portfolio Manager	n/a			
		US EPA	n/a		US EPA	n/a			
		US EIA	n/a		US EIA	n/a			
		Target Finder	n/a		Target Finder	n/a			
		Arch2030	n/a		Arch2030	n/a			
		ASHRAE	n/a		ASHRAE	n/a			
		Utility	n/a		Utility	n/a			
		Other	n/a		Other	n/a			
	ID	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES

## Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Measures Data

*Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "[value]" is used.*

*The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.*

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Description	Type of Measure	[value]	n/a	Action Category	=[value]	n/a			
	Long Description	[value]	n/a	Notes	=[value]	n/a			
	Measure Scale of Application	[value]	n/a	Application Scale	=[value]	n/a			
	Premise Affected	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	System Category Affected	Air Distribution	n/a	End Use	Other	n/a			This is primarily a hierarchical term in BuildingSync, used to help identify the reference IDs for systems that are modified by the measure.
	Heating System	n/a		Heating	n/a				
	Cooling System	n/a		Cooling	n/a				
	Other HVAC	n/a		Other	n/a				
	Lighting	n/a		Total Lighting	n/a				
	Domestic Hot Water	n/a		Domestic Hot Water	n/a				
	Cooking	n/a		Cooking	n/a				
	Refrigeration	n/a		Refrigeration	n/a				
	Dishwasher	n/a		Dishwasher	n/a				
	Laundry	n/a		Laundry	n/a				
	Pump	n/a		Process Load	n/a				
	Fan	n/a		Other	n/a				
	Motor	n/a		Process Load	n/a				
	Heat Recovery	n/a		Other	n/a				
	Wall	n/a		Other	n/a				
	Roof	n/a		Other	n/a				
	Ceiling	n/a		Other	n/a				
	Fenestration	n/a		Other	n/a				
	Foundation	n/a		Other	n/a				
	General Controls and Operations	n/a		Other	n/a				
		Critical IT System	n/a		IT Equipment	n/a			
		Plug Load	n/a		Plug Load	n/a			
		Process Load	n/a		Process Load	n/a			
		Conveyance	n/a		Conveyance	n/a			
		On-Site Storage, Transmission, Generation	n/a		Generator	n/a			
		Pool	n/a		Pool Heating	n/a			
		Water Use	n/a		Other	n/a			
		Other	n/a		Other	n/a			
	Technology Category	BoilerPlantImprovements	n/a	Technology Category	Boiler plant improvements	n/a			
		ChillerPlantImprovements	n/a		Chiller plant improvements	n/a			
		BuildingAutomationSystems	n/a		Building automation systems	n/a			
		OtherHVAC	n/a		Heating ventilating and air conditioning	n/a			
		LightingImprovements	n/a		Lighting improvements	n/a			
		BuildingEnvelopeModifications	n/a		Building envelope modifications	n/a			
		ChilledWaterHotWaterAndSteamDistributionSystems	n/a		Chilled water hot water and steam distribution systems	n/a			
		ElectricMotorsAndDrives	n/a		Electric motors and drives	n/a			
		Refrigeration	n/a		Refrigeration	n/a			
		DistributedGeneration	n/a		Distributed generation	n/a			
		RenewableEnergySystems	n/a		Renewable energy systems	n/a			
		EnergyDistributionSystems	n/a		Energy distribution systems	n/a			
		WaterAndSewerConservationSystems	n/a		Water and sewer conservation systems	n/a			
		ElectricalPeakShavingLoadShifting	n/a		Electrical peak shaving or load shifting	n/a			
		EnergyCostReductionThroughRateAdjustments	n/a		Energy cost reduction through rate adjustments	n/a			
		EnergyRelatedProcessImprovements	n/a		Energy related process improvements	n/a			
		AdvancedMeteringSystems	n/a		Advanced metering systems	n/a			
		PlugLoadReductions	n/a		Plug load reductions	n/a			
		FutureOtherECMs	n/a		Other	n/a			
		HealthAndSafety	n/a		Other	n/a			
		Uncategorized	n/a		Other	n/a			
	Measure Name	[value]	n/a	Reporting Level	Measure	n/a			
				Description	=[value]	n/a			
	Measure Coverage	[value]	%	Scope	=[value]	%			
	Existing System Replaced	ldref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Existing System Affected	ldref	n/a	(No corresponding field)					Hierarchical element not used in BEDES

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Existing System Removed	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Alternative System Replacement	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Alternative System Added	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Modified System	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Existing Schedule Affected	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Modified Schedule	Idref	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	M&V Option	Option A: Retrofit Isolation With Partial Measurement	n/a	IPMVP Option	Option A	n/a			
		Option B: Retrofit Isolation With Full Measurement	n/a		Option B	n/a			
		Option C: Whole Building Measurement	n/a		Option C	n/a			
		Option D: Calibrated Simulation	n/a		Option D	n/a			
		Combination	n/a		Other	n/a			
		Other	n/a		Other	n/a			
	Useful Life	[value]	yr	Reporting Level	Measure	n/a			
				Useful Life	=[value]	yr			
				Unit of Measure	Years	n/a			
	Recommended	True	n/a	Implementation Status	Recommended	n/a			
		False	n/a		Evaluated	n/a			
	Start Date	[value]	CCYY-MM-DD	Implementation Status	Initiated	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
	End Date	[value]	CCYY-MM-DD	Date Format	Date	n/a			
				Implementation Status	Completed	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
	Measure Rank	[value]	n/a	Date Format	Date	n/a			
				(No corresponding field)					
	Measure First Cost	[value]	\$	Reporting Level	Measure	n/a			
				Cost Attribution	First	n/a			
				Unit Of Measure	\$	n/a			
				Cost	=[value]	\$			
	Capital Replacement Cost	[value]	\$	Reporting Level	Measure	n/a			
				Cost Attribution	Replacement	n/a			
				Unit Of Measure	\$	n/a			
				Cost	=[value]	\$			
	Residual Value	[value]	\$	(No corresponding field)					This value is a theoretical function of analysis period and measure lifetimes used for NPV analysis, and does not represent a real cost.
	Implementation Status	[value]	n/a	Implementation Status	=[value]	n/a			
	Discard Reason	[value]	n/a	Discard Reason	=[value]	n/a			



## Mapping of BuildingSync Version 2.0 to BEDES Version 1.2 - Reporting Data

*Enumerations are only listed when there is a difference between BuildingSync and BEDES, otherwise "[value]" is used.*

*The BuildingSync enumerations must include all values to allow mapping, but some values in the corresponding BEDES term may not be used.*

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes	
Scenario	Scenario Name	[value]	n/a	Description	= [value]	n/a				
	Temporal Status	[value]	n/a	Temporal Status	= [value]	n/a				
	Normalization	[value]	n/a	Normalization	= [value]	n/a				
	Qualifier								Marked for deletion	
		Onsite	n/a	Resource Boundary	Onsite	n/a				
		Offsite	n/a	Resource Boundary	Offsite	n/a				
		Onsite and Offsite	n/a	Resource Boundary	Gross	n/a				
		Direct	n/a	Emission Boundary	Direct	n/a				
		Indirect	n/a	Emission Boundary	Indirect	n/a				
		Biomass	n/a	Emission Source	Biomass	n/a				
		Net	n/a	Emission Boundary	Net	n/a				
		Municipally Supplied Potable Water	n/a	Water Resource	Potable water	n/a				
		Municipally Supplied Reclaimed Water	n/a	Water Resource	Reclaimed water	n/a				
		Alternative Water Generated On-Site	n/a	Water Resource	Alternative water	n/a				
		Indoor	n/a	Location	Interior	n/a				
		Outdoor	n/a	Location	Exterior	n/a				
		Total	n/a	Resource Boundary	Gross	n/a				
		Scenario Type	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES. Similar to Temporal Status, but this term restricts subelements to relevant ones in BuildingSync.
		Measured Energy Source	UtilityBills	n/a	Origin	Utility	n/a			
			DirectMeasurement	n/a		Direct measurement	n/a			
			Other	n/a		Other	n/a			
		Weather Type	[value]	n/a	(No corresponding field)					Hierarchical element not used in BEDES. Similar to Normalization, but this term restricts subelements to relevant ones in BuildingSync.
		Weather Data Source	[value]	n/a	Weather Data Type	= [value]	n/a			
		Weather Year	[value]	CCYY	Normalization	Adjusted to specific year	n/a			
					Collection Date	= [value]	CCYY			
					Date Format	Year	n/a			
		Normalization Years	[value]	yr	(No corresponding field)					BEDES assumes 30 years for weather normalization.
		Normalization Start Year	[value]	CCYY	(No corresponding field)					
		Annual Heating Degree Days	[value]	*F-days	Weather Metric	Heating Degree Days	n/a			
					Weather Metric Value	= [value]	*F-days			
					Interval Frequency	Annual	n/a			
		Annual Cooling Degree Days	[value]	*F-days	Weather Metric	Cooling Degree Days	n/a			
					Weather Metric Value	= [value]	*F-days			
					Interval Frequency	Annual	n/a			
		Calculation Method	[value]	n/a	Derivation Method	= [value]	n/a			
		Software Program Used	[value]	n/a	Energy Software Tool	= [value]	n/a			
	Software Program Version	[value]	n/a	Energy Software Tool Version	= [value]	n/a				
	Benchmark Type	[value]	n/a	Benchmark Peer Group	= [value]	n/a				
	Code Name	[value]	n/a	Building Energy Code or Standard	= [value]	n/a				
	Code Version	[value]	n/a	Building Energy Code Or Standard Version	= [value]	n/a				
	Code Year	[value]	CCYY	Building Energy Code Year	= [value]	CCYY				
	Standard Practice Description	[value]	n/a	Description	= [value]	n/a				
	Other Benchmark Description	[value]	n/a	Description	= [value]	n/a				
	Benchmark Tool	[value]	n/a	Assessment Tool	= [value]	n/a				
	Summer Peak	[value]	kW	Interval Measure	Demand	n/a				
				Interval Frequency	15 minute	n/a				
				Schedule Period	Summer	n/a				
				Power Metric Value	= [value]	kW				

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Winter Peak	[value]	kW	Power Metric	Power	n/a			
				Unit of Measure	kW	n/a			
				Interval Measure	Demand	n/a			
				Interval Frequency	15 minute	n/a			
				Schedule Period	Winter	n/a			
				Power Metric Value	=[value]	kW			
				Power Metric	Power	n/a			
	End Use	All end uses	n/a	Unit of Measure	kW	n/a			
				End Use	Premises	n/a			
					Total Lighting	n/a			
					Interior Lighting	n/a			
					Exterior Lighting	n/a			
					Heating	n/a			
					Cooling	n/a			
					Ventilation	n/a			
					Pump	n/a			
					IT Equipment	n/a			
					Plug in Electric Vehicle	n/a			
					Plug Load	n/a			
					Process Load	n/a			
					Conveyance	n/a			
					Domestic Hot Water	n/a			
					Refrigeration	n/a			
					Cooking	n/a			
					Dishwasher	n/a			
					Laundry	n/a			
					Pool Heating	n/a			
					Generator	n/a			
	Resource Boundary	[value]	n/a	Resource Boundary	=[value]	n/a			
	Site Energy Use	[value]	kBtu	Resource Boundary	Site	n/a			Site and source energy elements could be collapsed in BuildingSync because the ResourceBoundary term has been added. However, it would require another layer with unbounded energy use elements. It's simpler to explicitly include the two key energy use types so there is no ambiguity if ResourceBoundary is left blank.
				Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	kBtu			
	Site Energy Use Intensity	[value]	kBtu/ft2	Unit of Measure	kBtu	n/a			
				Resource Boundary	Site	n/a			
				Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
	Source Energy Use	[value]	kBtu	Resource Intensity	=[value]	kBtu/ft2			
				Unit of Measure	kBtu/ft2	n/a			
				Resource Boundary	Source	n/a			
				Resource	Energy	n/a			
				Interval Frequency	Annual	n/a			
	Source Energy Use Intensity	[value]	kBtu/ft2	Interval Measure	Total	n/a			
				Resource Value	=[value]	kBtu			
				Unit of Measure	kBtu	n/a			
				Resource Boundary	Source	n/a			
				Resource	Energy	n/a			
	Energy Cost	[value]	\$	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Cost	=[value]	\$			
				Resource Boundary	Site	n/a			
				Resource	Electricity	n/a			
	Electricity Sourced from Onsite Renewable Systems	[value]	kWh	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Generation	Renewable	n/a			
				Resource Value	=[value]	kWh			
				Unit of Measure	kWh	n/a			
	Onsite Renewable System Electricity Exported	[value]	kWh	Resource Boundary	Onsite	n/a			
				Resource	Electricity	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Generation	Renewable	n/a			
				Resource Generation	Exported	n/a			
				Resource Value	=[value]	kWh			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Water Use	[value]	kgal	Unit of Measure	kWh	n/a			
				Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	kgal			
	Water Intensity	[value]	kgal/ft2	Unit of Measure	kgal	n/a			
				Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Intensity	=[value]	kgal/ft2			
	Water Cost	[value]	\$	Unit of Measure	kgal/ft2	n/a			
				Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Cost	=[value]	\$			
	Wastewater Volume	[value]	kgal	Resource	Wastewater	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	kgal			
				Unit of Measure	kgal	n/a			
	Asset Score	[value]	n/a	Assessment Program	Commercial Building Energy Asset Score	n/a			
				Assessment Recognition Type	Score	n/a			
				Assessment Value	=[value]	n/a			
				Assessment Program	ENERGY STAR	n/a			
				Assessment Recognition Type	Score	n/a			
	ENERGY STAR Score	[value]	n/a	Assessment Value	=[value]	n/a			
				Assessment Program	ENERGY STAR	n/a			
				Assessment Recognition Type	Score	n/a			
				Assessment Value	=[value]	n/a			
				Assessment Program	ENERGY STAR	n/a			
Package Summary Data	Reference Case	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	MeasuresID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Annual Savings Site Energy	[value]	MMBtu/yr	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Boundary	Site	n/a			
				Resource Savings	=[value]	MMBtu			
				Unit of Measure	MMBtu	n/a			
	Annual Savings Source Energy	[value]	MMBtu/yr	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Boundary	Source	n/a			
				Resource Savings	=[value]	MMBtu			
				Unit of Measure	MMBtu	n/a			
	Annual Savings Cost	[value]	\$/yr	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Cost Savings	=[value]	\$			
	Annual Savings Native Units	[value1] [value2] [value3]	units/yr n/a n/a	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource	=[value2]	n/a			
				Unit of Measure	=[value3]	n/a			
				Resource Savings	=[value1]	units/yr			
	Summer Peak Electricity Reduction	[value]	kW	Resource	Electricity	n/a			
				Interval Frequency	15 minute	n/a			
				Interval Measure	Demand	n/a			
				Schedule Period	Summer	n/a			
				Resource Savings	=[value1]	kW			
				Power Metric	Power	n/a			
				Unit of Measure	kW	n/a			
				Resource	Electricity	n/a			
				Interval Frequency	15 minute	n/a			
	Winter Peak Electricity Reduction	[value]	kW	Interval Measure	Demand	n/a			
				Schedule Period	Winter	n/a			
				Resource Savings	=[value1]	kW			
				Power Metric	Power	n/a			
				Unit of Measure	kW	n/a			
	Annual Demand Savings Cost	[value]	\$/yr	Resource	Electricity	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Demand	n/a			
				Power Metric	Power	n/a			
				Cost Savings	=[value]	\$/yr			
	Annual Water Savings	[value]	gal/yr	Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource	Potable water	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Annual Water Cost Savings	[value]	\$/yr	Unit of Measure	gallons	n/a			
				Resource Savings	=[value]	gal/yr			
				Resource	Potable water	n/a			
				Interval Frequency	Annual	n/a			
	Package First Cost	[value]	\$	Interval Measure	Total	n/a			
				Cost Savings	=[value]	\$/yr			
				Reporting Level	Package	n/a			
				Cost Attribution	First	n/a			
	MV Cost	[value]	\$/yr	Cost	=[value]	\$			
				Unit of Measure	\$	n/a			
				Cost Attribution	MV	n/a			
				Interval Frequency	Annual	n/a			
	Equipment Disposal and Salvage Costs	[value]	\$	Periodically Recurring Costs	=[value]	\$/yr			
				Cost Attribution	Disposal and salvage costs	n/a			
				Cost	=[value]	\$			
				Unit of Measure	\$	n/a			
	OM Cost Annual Savings	[value]	\$	Savings Attribution	Operation and maintenance	n/a			
				Interval Frequency	Annual	n/a			
				Cost Savings	=[value]	\$			
				Unit of Measure	\$	n/a			
	Other Cost Annual Savings	[value]	\$	Savings Attribution	Other	n/a			
				Interval Frequency	Annual	n/a			
				Cost Savings	=[value]	\$			
				Unit of Measure	\$	n/a			
	Funding from Incentives	[value]	\$	Funding Source	Incentive	n/a			
				Funding Amount	=[value]	\$			
				Unit of Measure	\$	n/a			
				Cost Savings	=[value]	\$			
	Funding from Tax Credits	[value]	\$	Funding Source	Tax credits	n/a			
				Funding Amount	=[value]	\$			
				Unit of Measure	\$	n/a			
				Cost Savings	=[value]	\$			
	Implementation Period	[value]	months	(No corresponding field)					
	Implementation Period Cost Savings	[value]	\$	(No corresponding field)					
	Percent Guaranteed Savings	[value]	%	(No corresponding field)					
	Project Markup	[value]	%	Cost Attribution	Markup	n/a			
				Unit of Measure	Percent	n/a			
				Cost	=[value]	%			
				Unit of Measure	%	n/a			
	Recurring Incentives	[value]	\$	Funding Source	Incentive	n/a			
				Cost Attribution	Recurring	n/a			
				Funding Amount	=[value]	\$			
				Unit of Measure	\$	n/a			
	NPV of Tax Implications Analysis Period	[value1] [value2]	\$ yrs	Cost Attribution	Taxes	n/a			
				Cost Effectiveness Screening Method	Net Present Value	n/a			
				Cost Savings	=[value1]	\$			
				Cost Period	=[value2]	yrs			
	Other Financial Incentives Analysis Period	[value1] [value2]	\$ yrs	Unit of Measure	Years	n/a			
				Funding Source	Incentive	n/a			
				Cost Effectiveness Screening Method	Net Present Value	n/a			
				Funding Amount	=[value1]	\$			
	Simple Payback	[value]	yrs	Cost Period	=[value2]	yrs			
				Unit of Measure	Years	n/a			
				Cost Effectiveness Screening Method	Simple payback	n/a			
				Cost Effectiveness Value	=[value]	Years			
	Net Present Value	[value]	\$	Unit of Measure	Years	n/a			
				Cost Effectiveness Screening Method	Net Present Value	n/a			
				Cost Effectiveness Value	=[value]	\$			
				Unit of Measure	\$	n/a			
	Internal Rate of Return	[value]	%	Cost Effectiveness Screening Method	Internal Rate of Return	n/a			
				Cost Effectiveness Value	=[value]	%			
				Unit of Measure	Percent	n/a			
				Cost Effectiveness Screening Method	=[value]	n/a			
Energy Use	Cost Effectiveness Screening Method	[value]	n/a	Cost Effectiveness Screening Method	=[value]	n/a			
	Energy Resource	[value]	n/a	Resource	=[value]	n/a			
	Percent Resource	[value]	%	Percent of Total	=[value]	%			
	Percent End Use	[value]	%	Percent of Total	=[value]	%			
	Resource Units	[value]	n/a	Unit of Measure	=[value]	n/a			
	Annual Fuel Use Native Units	[value1]	units/yr	Interval Frequency	Annual	n/a			
	Resource	[value2]	n/a	Interval Measure	Total	n/a			
	Resource Units	[value3]	n/a	Resource	=[value2]	n/a			
				Unit of Measure	=[value3]	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Annual Fuel Use Consistent Units	[value]	MMBtu/yr	Resource Value	=[value1]	units/yr			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource Value	=[value]	MMBtu			
	Fuel Use Intensity Resource Units	[value1] [value2] [value3]	units/ft2/yr n/a n/a	Unit of Measure	MMBtu	n/a			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Resource	=[value2]	n/a			
				Unit of Measure	=[value3]	n/a			
				Resource Intensity	=[value1]	units/ft2/yr			
	Type of Rate Structure	FlatRate TimeOfUseRate TieredRate Other Unknown	n/a	Rate Structure	Flat rate	n/a			
					Time of use rate	n/a			
					(No corresponding field)				Tiered rate structure is established under Tier Direction in BuildingSync.
					Other	n/a			
					Unknown	n/a			
	Tier Direction	Increasing Decreasing Other	n/a n/a n/a	Rate Structure	Tiered rate increasing	n/a			
					Tiered rate decreasing	n/a			
					Other	n/a			
	Rate Structure Effective Date	[value]	CCYY-MM-DD	Schedule Period	Rate structure				This is intended to be the effective date of the overall rate schedule/structure, not the starting date of a particular rate period within the schedule. As a result, this field does not map perfectly with BEDES, because year is not included.
				Schedule Period Begin Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
	Rate Structure End Date	[value]	CCYY-MM-DD	Schedule Period	Rate structure				This is intended to be the effective date of the overall rate schedule/structure, not the starting date of a particular rate period within the schedule. As a result, this field does not map perfectly with BEDES, because year is not included.
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
	Rate Structure Sector	[value]	n/a	Sector Classification	=[value]	n/a			
	Rate Structure Name	[value]	n/a	Rate Structure ID	=[value]	n/a			
	Reference For Rate Structure	[value]	n/a	Rate Structure Reference	=[value]	n/a			
	Fixed Monthly Charge	[value]	\$	Charge Rate	Fixed monthly	n/a			
				Rate Charge Value	=[value]	\$/month			
				Unit Of Measure	Month	n/a			
	Net Metering	True False	n/a n/a	Meter Type	Net	n/a			BuildingSync does not include detailed meter descriptions.
					(No corresponding field)				
	Metering Configuration	[value]	n/a	Metering Configuration	=[value]	n/a			
	Type of Resource Meter	[value]	n/a	Meter Type	=[value]	n/a			
	Fuel Interruptibility	[value]	n/a	Fuel Interruptibility	=[value]	n/a			
	Shared Resource System	Multiple buildings on a single lot Multiple buildings on multiple lots Not shared Other Unknown	n/a n/a n/a n/a n/a	Shared Resource Configuration	Multiple building on a single lot	n/a			Typo in BEDES is corrected in BuildingSync. "Shared" is left out because it is duplicative.
					Multiple buildings on multiple lots	n/a			
					Not shared	n/a			
					Other	n/a			
					Unknown	n/a			
	Power Plant	[value]	n/a	Contact Label	Power plant	n/a			
	Utility Name	[value]	n/a	Company Name	=[value]	n/a			
				Contact Label	Utility	n/a			
	Utility Meter Number	[value]	n/a	Company Name	=[value]	n/a			
				Identifier Label	Meter	n/a			
	Utility Account Number	[value]	n/a	Identifier	=[value]	n/a			
				Contact Label	Utility	n/a			
				Identifier Label	Account	n/a			
	Utility Billpayer	[value]	n/a	Identifier	=[value]	n/a			
				Contact Label	Billing	n/a			
	Source Site Ratio	[value]	n/a	Company Name	=[value]	n/a			
	Electric Distribution Utility	[value]	n/a	Source Site Ratio	=[value]	n/a			
				Contact Label	Electric distribution utility	n/a			
	Average Marginal Cost Rate	[value]	\$/unit	Company Name	=[value]	n/a			
				Charge Rate	Average marginal buy	n/a			
	Average Marginal Sell Rate	[value]	\$/unit	Rate Charge Value	=[value]	\$/unit			
				Charge Rate	Average marginal sell	n/a			
	Energy Cost Rate	[value]	\$/unit	Rate Charge Value	=[value]	\$/unit			
				Rate Designation	Energy	n/a			
				Charge Rate	Buy	n/a			
	Energy Rate Adjustment	[value]	\$/unit	Rate Charge Value	=[value]	\$/unit			
				Charge Rate	Adjustment	n/a			
				Charge Rate	Buy	n/a			
				Rate Charge Value	=[value]	\$/unit			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Energy Sell Rate	[value]	\$/kWh	Resource	Electricity	n/a			
				Charge Rate	Sell	n/a			
				Rate Charge Value	=[value]	\$/kWh			
				Unit of Measure	\$/kWh	n/a			
	Electric Demand Rate	[value]	\$/kW	Resource	Electricity	n/a			
				Rate Designation	Demand	n/a			
				Charge Rate	Buy	n/a			
				Rate Charge Value	=[value]	\$/kW			
	Demand Ratchet Percentage	[value]	%	Unit of Measure	\$/kW	n/a			
				Resource	Electricity	n/a			
	Demand Window			Demand Ratchet Percentage	=[value]	%			
				Schedule Period	Demand window	n/a			
				Interval Frequency	1 minute	n/a			
					10 minute	n/a			
					15 minute	n/a			
					30 minute	n/a			
					Hour	n/a			
	Rate Period Name	[value]	n/a	Other	n/a				
				Schedule Period	Rate structure	n/a			
	TOU Number for Rate Structure	[value]	n/a	Description	=[value]	n/a			
				Schedule Period	TOU rate	n/a			
	Consumption Energy Tier Designation	[value]	n/a	Rate Structure Name	=[value]	n/a		Integer converted to text	
				Tier ID	=[value]	n/a			
	Max kWh Usage	[value]	kWh	Rate Designation	Energy	n/a			
				Tier Maximum	=[value]	kWh			
				Unit of Measure	kWh	n/a			
	Applicable Start Date For Energy Rate	[value]	--MM-DD	Schedule Period	TOU rate	n/a			
				Rate Designation	Energy	n/a			
				Schedule Period Begin Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
	Applicable End Date For Energy Rate	[value]	--MM-DD	Schedule Period	TOU rate	n/a			
				Rate Designation	Energy	n/a			
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
	Applicable Start Time For Energy Rate	[value]	hh:mm:ss	Schedule Period	TOU rate	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is no format called "timestamp" that matches.
				Rate Designation	Energy	n/a			
				Interval Start Time	=[value]	HHMM		Conversion of hour-minute combination is needed	
	Applicable End Time For Energy Rate	[value]	hh:mm:ss	Schedule Period	TOU rate	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is no format called "timestamp" that matches.
				Rate Designation	Energy	n/a			
				Interval End Time	=[value]	HHMM		Conversion of hour-minute combination is needed	
	Max kW Usage	[value]	kW	Resource	Electricity	n/a			
				Rate Designation	Demand	n/a			
				Tier Maximum	=[value]	kW			
				Unit of Measure	kW	n/a			
	Demand Rate Adjustment	[value]	\$/kW	Resource	Electricity	n/a			
				Rate Designation	Demand	n/a			
				Charge Rate	Adjustment	n/a			
				Rate Charge Value	=[value]	\$/kW			
				Unit of Measure	\$/kW	n/a			
				Resource	Electricity	n/a			
	Applicable Start Date For Demand Rate	[value]	--MM-DD	Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Schedule Period Begin Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period Begin Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
				Resource	Electricity	n/a			
	Applicable End Date For Demand Rate	[value]	--MM-DD	Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Schedule Period End Month	=[value]	n/a		MM from BuildingSync must be converted to an integer	
				Schedule Period End Day	=[value]	n/a		DD from BuildingSync must be converted to an integer	
				Resource	Electricity	n/a			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
	Applicable Start Time For Demand Rate	[value]	hh:mm:ss	Resource	Electricity	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is no format called "timestamp" that matches.
				Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Interval Start Time	=[value]	HHMM		Conversion of hour-minute combination is needed	
	Applicable End Time For Demand Rate	[value]	hh:mm:ss	Resource	Electricity	n/a			BEDES 1.2 refers to a timestamp data type in military hours, but there is no format called "timestamp" that matches.
				Schedule Period	TOU rate	n/a			
				Rate Designation	Demand	n/a			
				Interval End Time	=[value]	HHMM		Conversion of hour-minute combination is needed	
	Reactive Power Charge	[value]	\$/kVAR	Resource	Electricity	n/a			
				Charge Rate	Reactive power charge	n/a			
				Rate Charge Value	=[value]	\$/kVAR			
				Unit of Measure	\$/kVAR	n/a			
	Minimum Power Factor Without Penalty	[value]	%	Resource	Electricity	n/a			
				Minimum Power Factor Without Penalty	=[value]	%			
	Emission Boundary	[value]	n/a	Emission Boundary	=[value]	n/a			
	GHG Emissions	[value]	kgCO2e	Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Emission Gas Type	CO2e	n/a			
	Avoided Emissions	[value]	kgCO2e	Emissions Value	=[value]	kgCO2e			
				Interval Frequency	Annual	n/a			
				Interval Measure	Total	n/a			
				Emission Source	Avoided	n/a			
				Emission Gas Type	CO2e	n/a			
Time Series	Start Time Stamp	[value]	CCYY-MM-DDThh:mm:ss.sss	Interval Start Time	=[value]	CCYY-MM-DDThh:mm:ss.SS			
				Date Format	DateTime	n/a			
	End Time Stamp	[value]	CCYY-MM-DDThh:mm:ss.sss	Interval End Time	=[value]	CCYY-MM-DDThh:mm:ss.SS			
				Date Format	DateTime	n/a			
	Time Series Reading Quantity	Currency	n/a	Power Metric	Other	n/a			
		Current	n/a	Power Metric	Current	n/a			
		Current Angle	n/a	Power Metric	Current angle	n/a			
		Demand	n/a	Power Metric	Other	n/a			
		Frequency	n/a	Power Metric	Frequency	n/a			
		Power	n/a	Power Metric	Power	n/a			
		Power Factor	n/a	Power Metric	Power factor	n/a			
		Energy	n/a	Power Metric	Other	n/a			
		Voltage	n/a	Power Metric	Voltage	n/a			
		Voltage Angle	n/a	Power Metric	Voltage angle	n/a			
		Distortion Power Factor	n/a	Power Metric	Distortion power factor	n/a			
		Volumetric Flow	n/a	Power Metric	Volumetric Flow	n/a			
		Humidity ratio	n/a	Weather Metric	Humidity ratio	n/a			
		Relative humidity	n/a	Weather Metric	Relative humidity	n/a			
		Diffuse Horizontal Radiation	n/a	Weather Metric	Diffuse horizontal radiation	n/a			
		Direct Normal Radiation	n/a	Weather Metric	Direct normal radiation	n/a			
		Global Horizontal Radiation	n/a	Weather Metric	Global horizontal radiation	n/a			
		Dry Bulb Temperature	n/a	Weather Metric	Dry Bulb Temperature	n/a			
		Wet Bulb Temperature	n/a	Weather Metric	Wet Bulb Temperature	n/a			
		Wind Speed	n/a	Weather Metric	Wind speed	n/a			
		Other	n/a	Power Metric	Other	n/a			
	Interval Reading	[value]	n/a	Power Metric Value	=[value]	n/a			The reading could be either a Power Metric or Weather Metric, depending on Time Series Reading Quantity.
				Weather Metric Value	=[value]	n/a			
	Reading Type	[value]	n/a	Interval Measure	=[value]	n/a			
	Phase	[value]	n/a	Phase	=[value]	n/a			
	Energy Flow Direction	[value]	n/a	Current Flow Direction	=[value]	n/a			
	Interval Frequency	[value]	n/a	Interval Frequency	=[value]	n/a			
	Heating Degree Days	[value]	*F-days	Weather Metric	Heating Degree Days	n/a			
	Cooling Degree Days	[value]	*F-days	Weather Metric Value	=[value]	*F-days			
				Weather Metric	Cooling Degree Days	n/a			
				Weather Metric Value	=[value]	*F-days			

BuildingSync Table Name	BuildingSync Term	BuildingSync Value	BuildingSync Units	BEDES Term	Value Mapping	BEDES Unit	Unit Conversion	Other Conversion Operations	Notes
Audit Summary	HDD Base Temperature	[value]	*F	(No corresponding field)					In BEDES, HDD is always relative to 50F.
	CDD Base Temperature	[value]	*F	(No corresponding field)					In BEDES, CDD is always relative to 65F.
	Resource Use ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Audit Date	[value]	CCYY-MM-DD	Action Category	Audit	n/a			
				Implementation Status Date	=[value]	CCYY-MM-DD			
				Date Format	Date	n/a			
	ASHRAE Audit Level	Preliminary Energy-Use Analysis	n/a	ASHRAE Audit Level	Other	n/a			
		Level 1: Walk-through	n/a		Level 1	n/a			
		Level 2: Energy Survey and Analysis	n/a		Level 2	n/a			
		Level 3: Detailed Survey and Analysis	n/a		Level 3	n/a			
	Auditor Contact ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Audit Cost	[value]	\$	Action Category	Audit	n/a			
				Cost	=[value]	n/a			There is no Cost Attribution for audits
				Unit of Measure	\$	n/a			
	Analysis Period	[value]	yrs	Cost Period	=[value]	Years			
				Unit of Measure	Years	n/a			
	Discount Factor	[value]	%	Discount Factor	=[value]	%			
	Gas Price Escalation Rate	[value]	%	Resource	Natural Gas	n/a			
				Escalation Rate	=[value]	%			
	Electricity Price Escalation Rate	[value]	%	Resource	Electricity	n/a			
				Escalation Rate	=[value]	%			
	Water Price Escalation Rate	[value]	%	Resource	Water	n/a			
				Escalation Rate	=[value]	%			
	Escalation Rate	[value]	%	Escalation Rate	=[value]	%			
	Inflation Rate	[value]	%	(No corresponding field)					
	Auditor Qualification	[value]	n/a	Contact Label	Energy Auditor	n/a			
				Credential	=[value]	n/a			
	Auditor Qualification Number	[value]	n/a	Contact Label	Energy Auditor	n/a			
				Credential Number	=[value]	n/a			
	Auditor Qualification State	[value]	n/a	Contact Label	Energy Auditor	n/a			
				Credential State	=[value]	n/a			
	Certification Expiration Date	[value]	CCYY-MM-DD	(No corresponding field)					
	Certified Audit Team Member Contact ID	IDRef	n/a	(No corresponding field)					Hierarchical element not used in BEDES
	Audit Exemption	[value]	n/a	Audit Exemption	=[value]	n/a			